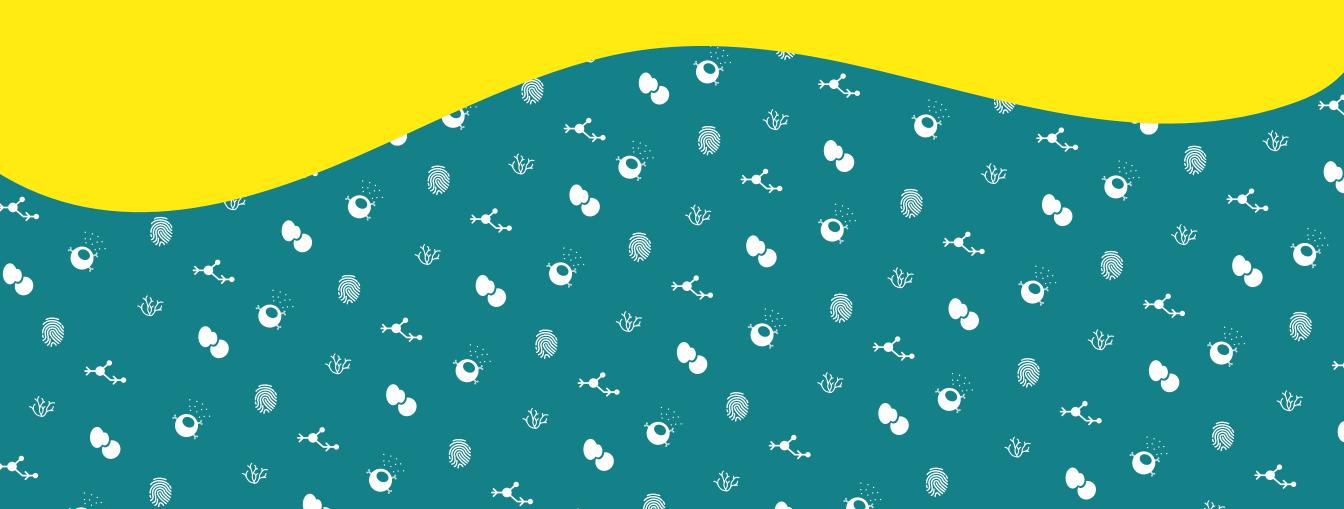
revvity

HTRF solutions

Guide to major applications



AUTOIMMUNITY

HTRF solutions for autoimmunity

Revvity's kits and services offer simple, rapid, cost-effective solutions for auto-immunity research.

Referenced in a growing number of publications aiming at understanding the pathophysiology of Rheumatoid Arthritis, Lupus, Multiple Sclerosis and Inflammatory Bowel Disease.

Comprehensive portfolio of Total and Phospho-protein, cytokine, chemokine and kinase assays, covering all major pro-inflammatory pathways, including **NF-kB, ZAP-70, STING, NLRP3**, and **JAK-STAT**.

	Specific cytokines of interest
Lupus	IFN alpha, beta, gamma
Psoriasis	TNF alpha, IL8, IL17
Multiple Sclerosis	TNF alpha
Inflammatory Bowel Disease	TNF alpha, IL6, IL23
Autoimmune arthritis	TNF alpha, IL6, IL17, IL23, GM-CSF

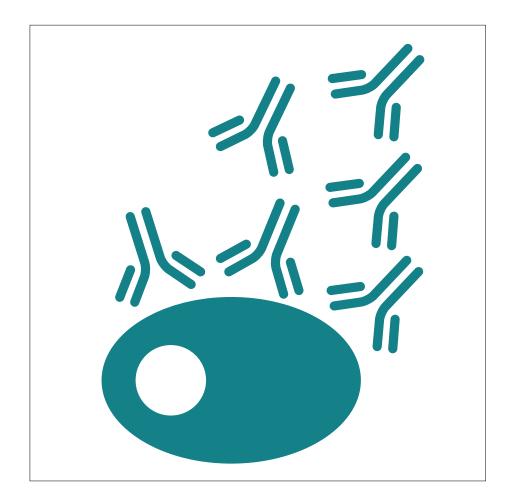


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DISEASES	Lupus Multiple Sclerosis	Lupus Psoriasis Multiple Sclerosis Inflammatory Bowel Disease Rheumatoid arthritis	Lupus Autoimmune arthritis	Lupus	Lupus Psoriasis Multiple Sclerosis Inflammatory Bowel Disease Rheumatoid arthritis
J	STING	JAK-STAT	втк	ZAP70	NF-kB
Cytokines	IFN beta IFN alpha IFN gamma	IFN beta IFN alpha	IFN gamma TNF alpha IL2 IL4 IL5 IL6 IL10 IL12 IL17	TNF alpha IFN gamma IL2 IL4 IL5 IL6 IL10	IFN alpha IFN beta IFN gamma IL6 CCL2 CCL3 CCL4 CCL5 CCL20 CXCL1 CXCL10
Phospho-proteins	Alpha Tubulin Total & Phospho-STING (Ser366) Phospho-IRF3 (Ser386) Total & Phospho-TBK1 (Ser172) Total & Phospho-NF-kB (Ser536) Total & Phospho-STAT1 (Tyr701) Total & Phospho-STAT3 (Tyr705) Total & Phospho-STAT5 (Tyr694) Total IRAK3 Total IRAK4	Alpha Tubulin Total & Phospho-STAT1	Alpha Tubulin Total & Phospho-BTK (Tyr223) Total & Phospho-AKT1 (Ser473) Total & Phospho-AKT2 (Ser473) Total & Phospho-AKT3 (Ser473) Phospho-AKT1/2/3 (Ser473) Phospho-AKT1/2/3 (Thr308) Total AKT1/2/3 Phospho-mTOR (Ser2448) Total & Phospho-ERK (Thr202/Tyr204) Phospho-JNK (Thr183/Tyr185)Total & Phospho-NF-kB (Ser536) Total & Phospho-GSK3 (Ser9) Phospho-BAD (ser112) Phospho-P38 (thr180/ Tyr182)	Alpha Tubulin Total & Phospho-ZAP70 (Tyr319) Total & Phospho-SLP-76 (Ser376) Total & Phospho-CREB (Ser133) Total & Phospho-ERK (Thr202/Tyr204) Phospho-JNK (Thr183/Tyr185)Total & Phospho-AKT1 (Ser473) Total & Phospho-AKT2 (Ser473) Total & Phospho-AKT3 (Ser473) Phospho-AKT1/2/3 (Ser473) Phospho-AKT1/2/3 (Thr308) Total AKT1/2/3 Phospho-mTOR (Ser2448) Total & Phospho-SHP1 (Tyr564) Total & Phospho-SHP2 (Tyr542)	Alpha Tubulin Total & Phospho-NF-kB (Ser536) Total & Phospho-IKKbeta (Ser177/181) Total IRAK3 Total IRAK4

HTRF solutions for virology

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DISEASES	Lupus Multiple Sclerosis	Lupus Psoriasis Multiple Sclerosis Inflammatory Bowel Disease Rheumatoid arthritis	Lupus Autoimmune arthritis	Lupus	Lupus Psoriasis Multiple Sclerosis Inflammatory Bowel Disease Rheumatoid arthritis
_	STING	JAK-STAT	втк	ZAP70	NF-kB
Kinases (Biochemical)		JAK1 (TK) JAK2 (TK) JAK3 (TK)	LYN (TK) SYK (TK)	LCK (TK)	
PPI	PD1/PDL1 CTLA4/B7-1 CTLA4/B7-2 LAG3/MHCII Human H232 STING binding kit Human AQ STING binding kit Mouse STING binding kit	CD47/SIRPa		PD1/PDL1 CTLA4/B7-1 CTLA4/B7-2	

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CARDIOLOGY

HTRF solutions for cardiology

Revvity's kits and services offer simple, rapid, cost-effective solutions for cardiology research.

Referenced in a growing number of publications aiming at understanding the pathophysiology of atherosclerosis, heart fibrosis, and cardio protection.

Comprehensive portfolio of Total and Phospho-protein, cytokine, kinase and biomarker assays, covering all major pro-pathways, including Nitric Oxide signaling.

Large selection of GPCR tools and solutions, including our acclaimed **cAMP** and **IP-One** assays.

GPCRs				
Tag-lite beta1				
Tag-lite beta2				
Tag-lite AT2				
Tag-lite A2A				
Tag-lite A2B				
Tag-lite A1				
Tag-lite A3				

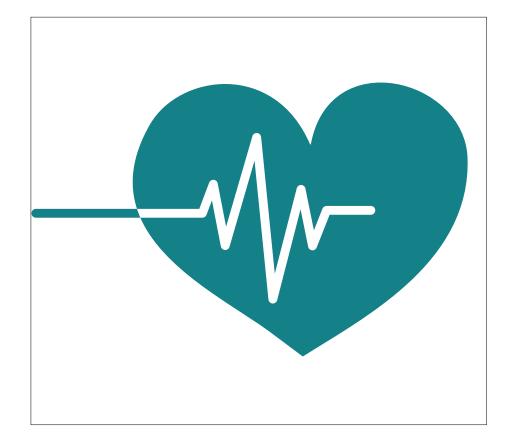


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DISEASES	Hypertension Hypercholesterol Atherosclerosis Acute and Chronic Ischemia	Atherosclerosis	Stroke Hypertrophy	Heart fibrosis
	NITRIC OXIDE	APOLIPOPROTEINSE	CARDIO PROTECTION	FIBROSIS
Cytokines	IFN gamma TNF alpha IL2 IL4 IL5 IL6 IL10 IL12			TGF beta IL6 IL1 beta TNF alpha
Phospho-proteins	Alpha Tubulin Phospho-VASP (Ser157) Phospho-VASP (Ser239) Total VASP Total & Phospho-Phospholamban (Thr17)		Alpha Tubulin Phospho-IRS1 (Ser307 mouse/Ser312 human) Total & Phospho-AKT1 (Ser473) Total & Phospho-AKT2 (Ser473) Total & Phospho-AKT3 (Ser473) Phospho-AKT1/2/3 (Ser473) Phospho-AKT1/2/3 (Thr308) Total AKT1/2/3 Phospho-mTOR (Ser2448) Total & Phospho-GSK3 alpha (Ser21) Phospho-BAD (Ser112) Total & Phospho-ERK (Thr202/ Tyr204)	Alpha Tubulin Total & Phospho-SMAD1 (Ser463/465) Phospho-SMAD2 (Ser465/427) Total & Phospho-SMAD3 (Ser423/425)
Biomarkers	cGMP	PCSK9 APO-E/A1/B/C3		HA P3NP Pro-collagen MMP2/9 & TIMP-1

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NAFLD AND FIBROSIS

HTRF solutions for NAFLD and fibrosis

Revvity's kits and services offer simple, rapid, cost-effective solutions for NAFLD and fibrosis.

Successfully applied to all the steps preceding and following the state of non-alcoholic steatohepatitis.

Comprehensive portfolio of:

- Cytokine assays
- Chemokine assays
- Kinase assays

covering all major pro-inflammatory pathways. Of particular interest are our star products in fibrosis, including **Alpha-SMA**, **Pro-collagen**, and **Hyaluronic acid**.

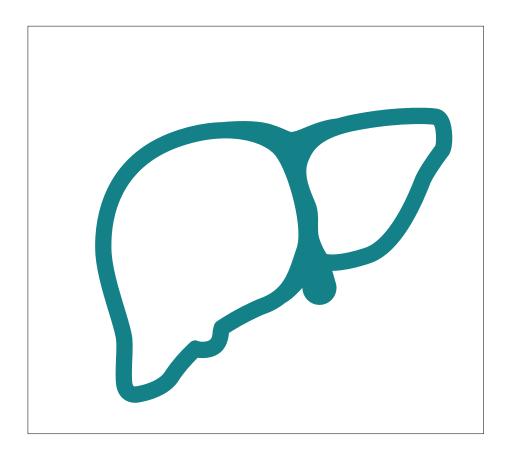


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	NUCLEAR RECEPTORS	STEATOSIS	IR and DNL	ER STRESS	FIBROSIS
Cytokines			IL1 beta IL6 TNF alpha IFN gamma		TGF beta CCL2 IL2 IL18
Phospho-proteins		Alpha Tubulin Total & Phospho-Fox01 (Ser256) Total & Phospho-ACC (Ser79) Total & Phospho-AMPK (Trh172) Total & Phospho-CREB (Ser133)	Alpha Tubulin Total & Phospho-FoxO1 (Ser256) Total & Phospho-ACC (Ser79) Total & Phospho-AMPK (Trh172) Total & Phospho-CREB (Ser133) Total & Phospho-IRS1 (Ser307) Total & Phospho-SMAD3 (Ser423/425) Total & Phospho-IR beta (Tyr1150/1151) Phospho-4EBP1 (Thr37/48) Total & Phospho-GSK3 beta (Ser9))	Alpha Tubulin Total & Phospho-EIF2 alpha (Ser52) Total & Phospho-FoxO1 (Ser256)	Alpha Tubulin Total & Phospho-SMAD3 (Ser423/425) Total & Phospho-SMAD2 (Ser465/427) Phospho-PDGFRβ beta (Tyr751) Phospho-P38 (Thr180/Tyr182) Total & Phospho-NF-kB (Ser536) Total & Phospho YAP (Ser127) Total & Phospho-FAK (Tyr397)
Biomarkers		ApoC3,E,A1,B	Insulin High range Insulin Ultra sensitive Mouse Insulin serum		Hyaluronic acid Pro-collagen Alpha-SMA MMP2,9/TIMP-1 P3NP
PPIs	Streptavidin-XL665 MAb Anti FLAG M2-d2 MAb Anti FLAG M2-Eu cryptate MAb Anti FLAG M2-Tb cryptate MAb Anti FLAG M2-XL665 MAb Anti-6HIS-Eu cryptate Gold MAb Anti-6HIS Tb cryptate Gold MAb Anti 6HIS-d2 MAb Anti 6HIS-XL665 MAb Anti GST-d2 MAb Anti GST-Eu cryptate MAb Anti GST-Tb cryptate MAb Anti GST-XL665				

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NEUROSCIENCE

HTRF solutions for neuroscience

Revvity's kits, including total and Phospho-proteins, Cytokines, and Biomarkers, offer simple, rapid, cost-effective solutions to researchers working in neurodegenerative diseases.

A comprehensive product pipeline and a growing number of publications aiming at understanding the pathophysiology of Alzheimer's, Parkinson's, ALS/FTD diseases onset.

A full range of HTRF assays to study chronic neuroinflammation triggered by glial cells and delineate their critical role in neurodegeneration pathways.

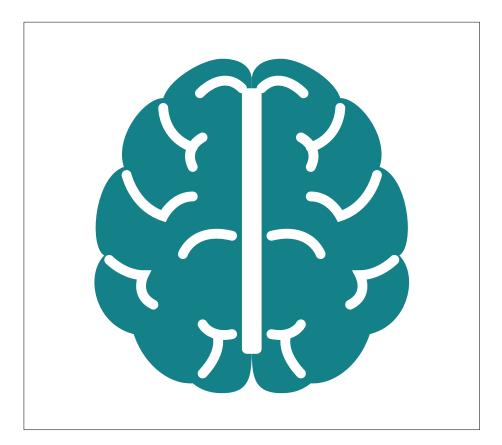


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	ALZHEIMER'S	PARKINSON'S	ALS/FTD	MICROGLIA	ASTROCYTES
Cytokines	IL1β IL4 IL6 IL10 TNF alpha	IL1β IL6 TNF alpha	IL1β IL6 TNF alpha IL8	IL1β IL4 IL6 IL10 TGF betaβ IL2 IL18	IL1β IL10 TNF alpha IL17 CXCL1 CCL2 TGFβ beta
Phospho-proteins	Alpha Tubulin Total & Phospho-GSK3 βbeta (Ser9) Total & -Phospho Tau (Ser202) Phospho & Total-Tau (Ser404) Phospho-AKT1/2/3 (Ser473) Phospho-AKT1/2/3 (Thr308) Total AKT1/2/3 Total & Phospho-ERK (Thr202/Tyr204)	Alpha Tubulin Total & Phospho-aSyn (Ser129) Total & Phospho-LRRK2	Alpha Tubulin Phospho-mTOR (Ser2448) Phospho-ULK1 (Ser757/Ser758)Total & Phospho-AMPK (Trh172) Total & Phospho-TBK1 (Ser172) Phospho-BAD (Ser112) Total & Phos- pho-P62SQSTM1 (Ser403)	Alpha Tubulin Total & Phospho-SLP76 (Ser376) Total & Phospho-BTK (Tyr223) Phospho-AKT1/2/3 (Ser473) Phospho-AKT1/2/3 (Thr308) Total AKT1/2/3 Total & Phospho-ERK (Thr202/Tyr204) Total & Phospho-MKK4 (Ser257) Total & Phospho-NF-kB (Ser536)	Alpha Tubulin Total & Phospho-IKKbeta (Ser177/181) Total & Phospho-NF-kB (Ser536) Total & Phospho-MEK1 (Ser298) Total & Phospho-MEK1/2 (Ser218/222) Total & Phospho-ERK (Thr202/Tyr204) Total & Phospho-STAT3 (Tyr705)
Biomarkers	Tau aggregation MAP-TAU Amyloid beta1-40	a-Synuclein aggregation BDNF Cleaved PARP	Cleaved PARP Progranulin	TREM2 HMGB1	MMP9 MANF BDNF
PPIs/ Tag-lite/ GPCRs	Biotin-APP-Eu cryptate APP	Tag-Lite D1 Receptor Tag-Lite D2 Receptor		IP-one	IP-one

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CAR-T RESEARCH HTRF solutions for CAR-T research

Revvity's Total and Phospho-protein, Cytokine, and biomarker kits and our services offer simple, rapid, cost-effective solutions to researchers working in immuno-oncology.

Early drug discovery stages on CAR-T engineering and functional testings can be addressed with our full range of HTRF assays.

Early DD

- Address tumor targeting
- Intrinsic T cell potency: Functionality and persistence
- Extrinsic T cell potency: Action on the tumor microenvironment

INTRINSIC T CELL POTENCY

	Assess functionality	Assess persistence
Cytokines	IFN gamma TNF alpha IL1 beta IL2 IL6 IL12 IL18 GM-CSF	
Phospho-proteins	Alpha Tubulin Total & Phospho-ZAP70 (Tyr319) Total & Phospho-SLP76 (Ser376) Total & Phospho-SHP1 (Tyr564) Total & Phospho-SHP2 (Tyr542) Total & Phospho-STAT1 (Tyr701) Phospho-STAT5 (Tyr694) Phospho-STAT6 (Tyr641) Total & Phospho-ERK (Thr202/Tyr204) Total & Phospho-AKT1 (Ser473) Total & Phospho-AKT2 (Ser473) Total & Phospho-AKT3 (Ser473) Phospho-AKT1/2/3 (Ser473) Phospho-AKT1/2/3 (Thr308) Total AKT1/2/3 Phospho mTor (Ser2448) Phospho JNK (Thr183/Tyr185) Phospho-CJun (Ser63) Total & Phospho-NF-kB (Ser536) Phospho/Total-CREB (Ser133)	
Biomarkers	Ki67 GRZB Perforin	Ki67 BAD Cleaved PARP

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TLR RESEARCH HTRF solutions for TLR research

Revvity's Cytokine, Total and Phospho-protein kits as well as services offer simple, rapid, cost-effective solutions to researchers in inflammatory related diseases.

Drugs targeting innate immunity especially Toll-like receptor signaling can be addressed with our full range of HTRF assays.

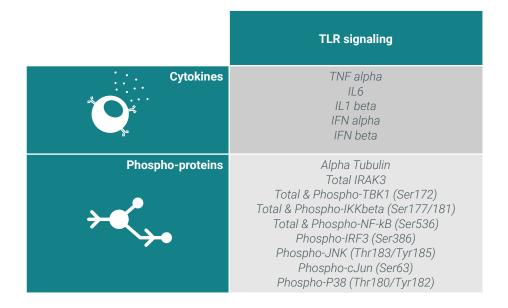


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VIROLOGY

HTRF solutions for virology

Revvity's PPI reagents, kits, and services offer simple, rapid, cost-effective solutions to researchers working in virology.

They have been successfully applied to the discovery of anti-viral agents targeting the binding, integration, replication, and assembly steps of the viral cycle.

Renowned companies have published on their use of Revvity products to develop creative approaches to antiviral drug development. Among them are Medimmune, the Scripps Institute, and the NIH.

HTRF reagents have been used to look for inhibitors of HRV attachment and replication, and inhibitors of HIV capsid formation and integration.

	Other products of interest
Custom services	Custom labelling Custom assay development
Specialty assays	Viral double-stranded RNA detection kit

PPI reagents
MAb Anti HA-d2 MAb Anti HA-Eu cryptate MAb Anti HA-Tb cryptate MAb Anti HA-XL665
MAb Anti DNP-Eu cryptate MAb Anti DNP-XL665
MAb Anti FLAG M2-d2 MAb Anti FLAG M2-Eu cryptate MAb Anti FLAG M2-Tb cryptate MAb Anti FLAG M2-XL665
MAb Anti GST-d2 MAb Anti GST-Eu cryptate MAb Anti GST-Tb cryptate MAb Anti GST-XL665
MAb Anti-6HIS-Eu cryptate Gold MAb Anti-6HIS Tb cryptate Gold MAb Anti 6HIS-d2 MAb Anti 6HIS-XL665
MAb Anti cmyc-d2 MAb Anti cmyc-Eu cryptate MAb Anti cmyc-Tb cryptate MAb Anti cmyc-XL665

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