

LANCE[®] Ultra

Eu-W1024 labeled Anti-Phospho-eIF4E-binding protein 1

(Thr37/46) Antibody

Product number:	TRF0216-M	L	ot Number:	3272913
Product Format:	TRF0216-D: 10 μg TRF0216-M: 100 μg			\sim
Manufacturing date:	March 12, 2024	Document version:	1	
Product Information				
Antibody:	Europium-labeled rabbit monoclonal antibody recognizing human eukaryotic translation initiation factor 4E-binding protein 1 phosphorylated at Thr37 or Thr46.			
Storage Buffer:	50 mM Tris-HCl (pH 7.4), 0.9% NaCl with 0.05% sodium azide as preservative and 0.1 % BSA			
Molecular Weight:	160 000			
Stability:	This product is stable for at least 18 months from the manufacturing date when stored in its original packaging and at the recommended storage conditions.			
Storage Conditions:	Store at 4°C.			

Quality Control

The QC release specifications are based on spectrophotometric analysis of the labeled antibody. We certify that results meet our quality release criteria.

Labeling Ratio:	6.23
Concentration:	100 μg/mL (0.625μM)

Recommended Assay Conditions

SUGGESTED METHOD:

(Specific applications might require optimization)

Reagent Preparation

- Prepare 1X Kinase Assay Buffer: 50 mM HEPES pH 7.5, 1 mM EGTA, 10 mM MgCl₂, 3 mM MnCl₂, 2 mM DTT and 0.01% Tween-20.
- Prepare a 4X U*Light*-eIF4E-binding protein 1 (Thr37/46) Peptide solution: dilute U*Light*-eIF4E-binding protein 1 to a concentration of 200 nM in Kinase Assay Buffer.
- Prepare a 2X mTOR solution: dilute enzyme to a concentration of 1 nM in Kinase Assay Buffer. Keep on ice.
- Prepare a 4X ATP solution: dilute ATP to concentrations ranging from 40 nM to 4 mM (serial half-log dilutions) in Kinase Assay Buffer. Keep on ice.
- Prepare 1X Detection Buffer: dilute 0.5 mL of 10X Detection Buffer with 4.5 mL of H_2O .
- Prepare a 4X Stop solution*: dilute EDTA to a concentration of 32 mM in 1X Detection Buffer.
- Prepare a 4X Detection Mix: dilute Europium-anti-phospho-elF4E-binding protein 1 (Thr37/46) Antibody to a concentration of 8 nM in 1X Detection Buffer.

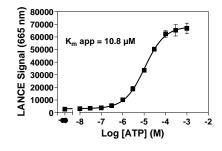
Protocol

- Pipet 5 µL of 2X mTOR solution (0.5 nM final concentration).
- Add 2.5 μL of 4X U*Light*-eIF4E-binding protein 1 (Thr37/46) peptide solution into a 384-well white OptiPlate-384 (50 nM final concentration).
- Add 2.5 μL of 4X ATP solution (10 nM to 1 mM final concentrations).
- Cover plate with TopSeal-A and incubate 60 min at 23°C.
- Add 5 µL of 4X Stop solution* and incubate 5 min at 23°C.
- Add 5 μL of Detection Mix (2 nM Eu-anti-phospho-eIF4E-binding protein 1 (Thr37/46) Antibody final concentration).
- Cover plate with TopSeal-A and incubate 60 min at 23°C.
- Remove TopSeal-A and read in TR-FRET mode at 665 nm (excitation at 320 or 340 nm).

*Alternatively, the Stop solution and Detection Mix can be premixed and added together to the kinase reaction.

Typical Product Data

mTOR kinase assay using U*Light*TM-4E-BP1 (Thr37/46) Peptide and Eu-anti-phospho-4E-BP1 (Thr37/46) Antibody



Suggested Materials

- Substrate: U*Light*[™]-4E-BP1 (Thr37/46) Peptide
 - Antibody: Europium-anti-P-4E-BP1 (Thr37/46)

- Kinase: mTOR, active
- Detection Buffer: LANCE[®] Detection Buffer, 10X
- Plate: OptiPlate[™]-384, white
- TopSeal™-A

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