

LANCE® *Ultra* Research Reagents

Caution: For Laboratory Use. A product for research purposes only

Eu-W1024-labeled Anti-phospho-Histone H3 (Thr3) Antibody

Product No.: TRF0211-D / TRF0211-M

Lot No.: 2519266

Material Provided

Format: TRF0211-D 10 μg (1 562 assay points*)

TRF0211-M 100 µg (15 625 assay points*)

*Assuming 40 fmol/ assay point

Volume: 100 μL (TRF0211-D) or 1 mL (TFR0211-M)

Manufacturing Date: September 26, 2018

Product Information

Antibody: Europium-labeled rabbit monoclonal antibody recognizing phospho-Thr3 in human

Histone H3.

Molecular Weight: 160 000

Storage Buffer: 50 mM Tris-HCl (pH 7.4), 0.9% NaCl, 0.1% BSA and 0.05% sodium azide as

preservative

Stability: This product is stable for at least 12 months from the manufacturing date when

stored in its original packaging and the recommended storage conditions.

Storage Conditions: Store at -20°C. Repeated freezing and thawing should be avoided.

Safety Note: The storage buffer contains sodium azide (NaN₃) as a preservative. Disposal of all

waste should be in accordance with local regulations.

Quality Control

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

Labeling Ratio: 6.69 (Eu/Ab)

Concentration: $100 \mu g/mL (0.625 \mu M)$



Recommended Assay Conditions

RSK2 kinase: ATP titration

Reagent Preparation:

- Prepare 1X Kinase Assay Buffer: 50 mM HEPES pH 7.5, 1 mM EGTA, 10 mM MgCl₂, 2 mM DTT and 0.01% Tween-20.
- Prepare a 2X RSK2 solution: dilute enzyme to a concentration of 8 nM in 1X Kinase Assay Buffer. Keep on
- Prepare a 4X ULight-Histone H3 (Thr3/Ser10) Peptide solution: dilute ULight-Histone H3 (Thr3/Ser10) Peptide to a concentration of 200 nM in 1X Kinase Assay Buffer.
- Prepare a 4X ATP solution: dilute ATP to concentrations ranging from 40 nM to 4 mM (serial half-log dilutions)
 in 1X Kinase Assay Buffer. Keep on ice.
- Prepare 1X Detection Buffer: dilute 0.5 mL of 10X Detection Buffer with 4.5 mL of H₂O.
- Prepare a 4X Stop solution*: dilute EDTA to a concentration of 40 mM in 1X Detection Buffer.
- Prepare a 4X Detection Mix: dilute Europium-anti-phospho-Histone H3 (Thr3) Antibody to a concentration of 8 nM in 1X Detection Buffer.

Protocol:

- Pipet 5 µL of 2X RSK2 solution into a 384-well white OptiPlate-384 (4 nM final concentration).
- Add 2.5 μL of 4X ULight-Histone H3 (Thr3/Ser10) Peptide solution (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 45 min at 23°C.
- Add 5 μL of 4X Stop solution* and incubate 5 min at 23°C.
- Add 5 µL of 4X Detection Mix (2 nM Europium-anti-phospho-Histone H3 (Thr3) 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.

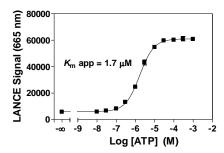


Typical ATP Titration Data

RSK2 kinase assay using ULight-Histone H3 (Thr3/Ser10) Peptide and Eu-anti-phospho-Histone H3 (Thr3) Antibody obtained using the EnVision® Multilabel Reader:

Supplier

Cat. No.



Suggested Materials

•	Substrate: U <i>Light</i> ™- Histone H3 (Thr3/Ser10) Peptide	PerkinElmer	TRF0125
•	Antibody: Eu- anti-phospho-Histone H3 (Thr3) Antibody	PerkinElmer	TRF0211
•	Kinase: RSK2	Carna Biosciences	01-150
•	Detection Buffer: LANCE® Detection Buffer, 10X	PerkinElmer	CR97-100
•	Plate: OptiPlate™-384, white	PerkinElmer	6007299
•	TopSeal™: TopSeal-A	PerkinElmer	6050195

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