Revision 4

Store at -20C

#14378

Phospho-MAPK Substrates Motif [PXpTP] MultiMab® Rabbit mAb mix

Cell Signaling TECHNOLOGY®

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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	Source/Isotype:
W	All	Endogenous	Rabbit IgG

Product Usage Information

Application	Dilution
Western Blotting	1:1000

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at –20°C. Do not aliquot the antibody.

Specificity/Sensitivity

Phospho-MAPK Substrates Motif [PXpTP] MultiMab® Rabbit mAb mix recognizes endogenous levels of proteins that are phosphorylated at threonine within the context of a PXTP motif. The antibody does not cross-react with endogenous levels of non-phosphorylated proteins, phospho-threonine in another context, or proteins with a phosphorylated serine within the PXSP motif.

Source / Purification

MultiMab® rabbit monoclonal mix antibodies are prepared by combining individual rabbit monoclonal clones in optimized ratios for the approved applications. Each antibody in the mix is carefully selected based on motif recognition and performance in multiple assays. Each mix is engineered to yield the broadest possible coverage of the modification being studied while ensuring a high degree of specificity for the modification or motif.

Background

The MAPK and CDK families of serine/threonine protein kinases play important roles in proliferation and cell cycle control. These kinases phosphorylate threonine or serine followed by a proline residue (1-3). MAPK phosphorylates substrates with the consensus sequence PX(S/T)P, and CDKs phosphorylate substrates containing the consensus sequence (S/T)PXR/K. Cell Signaling Technology has developed antibodies that bind to phospho-threonine followed by proline, motifs PXS*/T*P and/or S*PXR/K, for use in the study and discovery of new MAPK and CDK substrates (4,5).

Background References

1. Cross, T.G. et al. (2000) *Exp Cell Res* 256, 34-41.
2. Reynolds, C.H. et al. (2000) *J Neurochem* 74, 1587-95.
3. Seger, R. and Krebs, E.G. (1995) *FASEB J* 9, 726-35.
4. Holmes, J.K. and Solomon, M.J. (1996) *J Biol Chem* 271, 25240-6.
5. Songyang, Z. et al. (1996) *Mol Cell Biol* 16, 6486-93.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting

Cross-Reactivity Key

All: All Species Expected

Trademarks and Patents

Limited Uses

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