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PRODUCT DATASHEET

Anti-EB3 (Ser-162), Phosphospecific Antibody

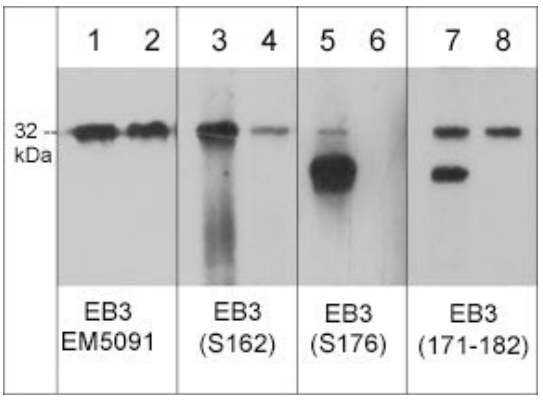
phosphosolutions ANTIBODIES THAT WORK

Product Details

Available Variants	100 µL (SKU:EP4981)
Conjugate	Unconjugated
Isotype	IgG
Gene Name	MAPRE3
Host Species	Rabbit
Format	Antigen Affinity Purified
Physical State	Liquid
Buffer	PBS + 1 mg/ml BSA, 0.05% NaN3 and 50% glycerol
Applications	ELISA, WB
Dilution Ranges	WB: 1:1000
Species Reactivity	Human, Mouse, Rat
Immunogen	Phospho-EB3 (Ser-162) synthetic peptide (coupled to KLH) corresponding to amino acid residues surrounding serine 162 in human EB3. This peptide sequence is highly conserved in mouse and rat EB3, and is not conserved in EB1 and EB2.
Specificity	The antibody detects a 32 kDa* protein corresponding to the apparent molecular mass of phosphorylated EB3 on SDS-PAGE immunoblots of mouse brain. This reactivity is significantly reduced after lambda phosphatase treatment.
Molecular Weight	32
Quality Control	Western blots performed on each lot.
Storage	Storage at -20°C is recommended, as aliquots may be taken without freeze/thawing due to presence of 50% glycerol. Stable for at least 1 year at -20°C.

UniProt ID	Q9UPY8 UniProt Summary: Plus-end tracking protein (+TIP) that binds to the plus-end of microtubules and regulates the dynamics of the microtubule cytoskeleton. Promotes microtubule growth. May be involved in spindle function by stabilizing microtubules and anchoring them at centrosomes. Also acts as a regulator of minus-end microtubule organization: interacts with the complex formed by AKAP9 and PDE4DIP, leading to recruit CAMSAP2 to the Golgi apparatus, thereby tethering non-centrosomal minus-end microtubules to the Golgi, an important step for polarized cell movement. Promotes elongation of CAMSAP2-decorated microtubule stretches on the minus-end of microtubules.
Country of Origin	United States
Shipping	Blue Ice
Expiration	After date of receipt, stable for at least 1 year at -20°C.
Usage Statement	For research use only. Not intended for therapeutic or diagnostic use. Use of all products is subject to our terms and conditions, which can be viewed on our website.
Post Translational Modification Type	Phosphorylated
Post Translational Modification Residue	Ser-162
NCBI Gene ID	22924

Product Images



Western blot analysis of adult mouse brain untreated (lanes 1, 3, 5, & 7) or treated with lambda phosphatase (lanes 2, 4, 6, & 8). The blots were probed with rat monoclonal anti-EB3 (EM5091) (lanes 1 & 2), and rabbit polyclonals anti-EB3 (Ser-162) (lanes 3 & 4), anti-EB3 (Ser-176) (lanes 5 & 6), and anti-EB3 (a.a. 171-182) (lanes 7 & 8).