www.antibodiesinc.com
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530-758-4400

PRODUCT DATASHEET

Anti-EB2 Antibody

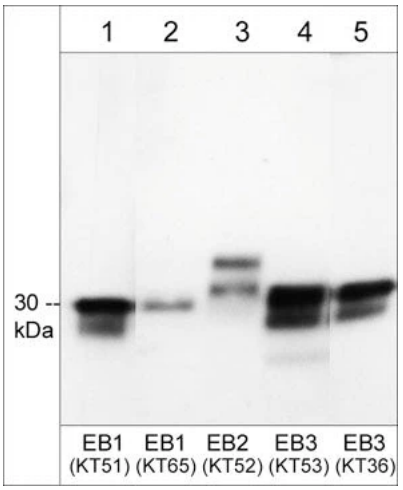
phosphosolutions ANTIBODIES THAT WORK

Product Details

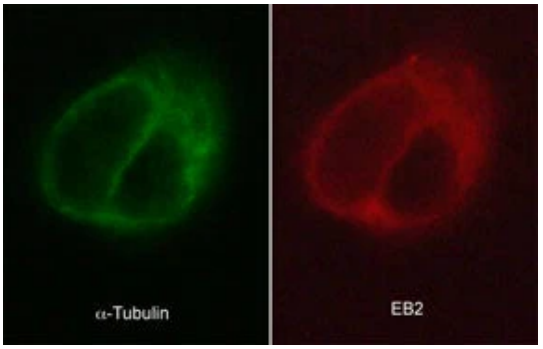
Available Variants	100 µL (SKU:EM5081)
Conjugate	Unconjugated
Isotype	IgG2b
Clone	KT52
Gene Name	MAPRE2
Host Species	Rat
Format	Protein G Purified
Physical State	Liquid
Buffer	PBS + 0.05% NaN3
Applications	ELISA, ICC, WB
Dilution Ranges	WB: 1:1000 ICC: 1:100
Species Reactivity	Human, Mouse, Rat
Immunogen	Clone KT52 was generated from a GST fusion protein containing human EB2. This sequence is highly conserved in rat and mouse EB2.
Specificity	The antibody detects a 36 kDa* protein corresponding to the molecular mass of EB2 on SDS-PAGE immunoblots of human HeLa, mouse brain, and rat PC12 cells. The antibody also detects EB2 by immunocytochemistry in HeLa and A431 cells.
Molecular Weight	32
Quality Control	Western blots performed on each lot.
Storage	Recommended that the undiluted antibody be aliquoted into smaller working volumes (10-30 uL/vial depending on usage) upon arrival and stored long term

	at -20° C or -80° C, while keeping a working aliquot stored at 4° C for short term. Avoid freeze/thaw cycles. Stable for at least 1 year.
UniProt ID	Q15555 UniProt Summary: Adapter protein that is involved in microtubule polymerization, and spindle function by stabilizing microtubules and anchoring them at centrosomes. Therefore, ensures mitotic progression and genome stability. Acts as a central regulator of microtubule reorganization in apico-basal epithelial differentiation. Plays a role during oocyte meiosis by regulating microtubule dynamics. Participates in neurite growth by interacting with plexin B3/PLXNB3 and microtubule reorganization during apico-basal epithelial differentiation. Also plays an essential role for cell migration and focal adhesion dynamics. Mechanistically, recruits HAX1 to microtubules in order to regulate focal adhesion dynamics.
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.
NCBI Gene ID	10982

Product Images



Western blot of EB proteins in mouse brain (lanes 1-5). The blot was probed with rat monoclonals EM5041 anti-EB1 (lane 1), EM5061 anti-EB1/2/3 (lane 2), EM5081 anti-EB2 (lane 3), EM5101 anti-EB3 (lane 4), and EM5091 anti-EB3 (lane 5). Then the antibodies were detected using goat anti-Rat IgG Light Chain specific:HRP (RS3121).



Immunocytochemical labeling of EB2 in paraformaldehyde-fixed and NP40-permeabilized A431 cells. The cells were dual labeled with mouse monoclonal anti-α-Tubulin (TM4111) (left) and rat monoclonal anti-EB2 (EM5081) (right). The antibodies were detected using either goat anti-mouse:DyLight® 488 (MS3011) or goat anti-Rat:DyLight® 594 (RS3111).