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EB3 Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP52003

Specification

EB3 Antibody - Product Information

Application	**WB**
Primary Accession	Q9UPY8
Reactivity	**Human, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**32 KDa**
Antigen Region	**221 - 280**

EB3 Antibody - Additional Information

Gene ID 22924

Other Names
Microtubule-associated protein RP/EB family member 3, EB1 protein family member 3, EBF3, End-binding protein 3, EB3, RP3, MAPRE3

Target/Specificity
KLH conjugated synthetic peptide derived from human EB3

Dilution
WB~~ 1:8000

Format
0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%

Storage
Store at -20 °C.Stable for 12 months from date of receipt

EB3 Antibody - Protein Information

Name MAPRE3

Function
Plus-end tracking protein (+TIP) that binds to the plus-end of microtubules and regulates the dynamics of the microtubule cytoskeleton (PubMed:28814570, PubMed:19255245). Promotes microtubule growth (PubMed:28814570, PubMed:19255245). May be involved in spindle function by stabilizing microtubules and anchoring them at centrosomes (PubMed:28814570, PubMed:<a

href="http://www.uniprot.org/citations/19255245" target="_blank">19255245). 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 (PubMed:28814570). Promotes elongation of CAMSAP2-decorated microtubule stretches on the minus-end of microtubules (PubMed:28814570).

Cellular Location
Cytoplasm, cytoskeleton. Note=Associated with the microtubule network. Detected at the plus end of microtubules

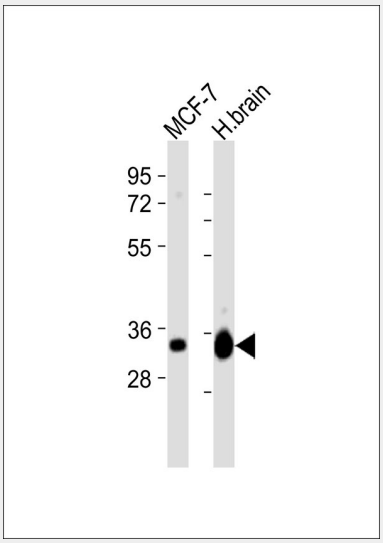
Tissue Location
Predominantly expressed in brain and muscle.

EB3 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

EB3 Antibody - Images



All lanes : Anti-EB3 Antibody at 1:8000 dilution Lane 1: MCF-7 whole cell lysates Lane 2: human brain lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L),Peroxidase conjugated at 1/10000 dilution Predicted band size : 32 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

EB3 Antibody - Background

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. May play a role in cell migration (By similarity).

EB3 Antibody - References

Nakagawa H.,et al.Oncogene 19:210-216(2000).
Su L.-K.,et al.Genomics 71:142-149(2001).
Halleck A.,et al.Submitted (JUN-2004) to the EMBL/GenBank/DDBJ databases.
Hillier L.W.,et al.Nature 434:724-731(2005).
Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.