

## Product datasheet for **TA389118**

### MAPRE3 Mouse Antibody [Clone ID: KT53]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	KT53
Applications:	ICC, WB
Recommended Dilution:	<b>WB:</b> 1:1000 <b>ICC:</b> 1:100
Reactivity:	Human, Rat, Mouse
Host:	Mouse
Isotype:	IgG2a
Immunogen:	Clone KT53 was generated from a GST fusion protein containing human EB3. This sequence is highly conserved in rat and mouse EB3.
Specificity:	The antibody detects a 32 kDa* protein corresponding to the molecular mass of EB3 on SDS-PAGE immunoblots of human HeLa cells and mouse brain tissue. The antibody also detects EB3 by immunocytochemistry in HeLa and A431 cells.
Formulation:	PBS + 0.05% NaN <sub>3</sub>
Concentration:	lot specific
Purification:	Protein G Purified
Conjugation:	Unconjugated
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.
Stability:	After date of receipt, stable for at least 1 year at -20°C.
Predicted Protein Size:	32
Database Link:	<a href="#">Q9UPY8</a>



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**Background:**

The microtubule (MT) plus-end is a crucial site for the regulation of MT dynamics and interactions by several groups of plus-end tracking proteins (+TIPs). These +TIPs form comet-like accumulations at the plus ends of MTs to regulate MT dynamics and interactions with organelles and macromolecular complexes. The +TIPs include diverse groups of proteins, such as motor and nonmotor proteins, MT polymerases and depolymerases as well as various regulatory and adaptor proteins. The CLIP-associated protein (CLASP) family includes CLASP1 and CLASP2 proteins, which are expressed as long ( $\alpha$ ) and short ( $\beta$ ) isoforms. These +TIPs contain an N-terminal TOG domain, multiple TOG-like domains, and a basic and serine-rich motif (SxIP). The TOG domain facilitates interaction with tubulin dimers, while the SxIP motif promotes interaction with EB1 and MTs. A C-terminal domain is involved in interaction with CLIPs, as well as several other proteins. CLASPs are MT stabilizing factors that localize to mitotic spindles, kinetochores, and the midbody. CLASPs are important for cell division, and may regulate cell migration and neuronal growth cone motility.

**Note:**

Protein G purified tissue culture supernatant.