

# Anti-EB3 Antibody

Catalog # AN1755

# **Specification**

# **Anti-EB3 Antibody - Product Information**

Application WB
Primary Accession Q9UPY8
Reactivity Bovine
Host Rat

Clonality Rat Monoclonal

Isotype IgG2a Calculated MW 31982

# **Anti-EB3 Antibody - Additional Information**

Gene ID 22924

**Other Names** 

Microtubule RP/EB, MAPRE3, APC, EB3, End-binding. RP3

### Target/Specificity

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. Thse +TIPs conatin 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 interaciton with EB1 and MTs. A C-terminal domain is involved in interaction with CLIPs, as well as several other proteins. CLASPs are MT stabilizing fators 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.

# **Dilution**

WB~~1:1000

#### Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

### **Precautions**

Anti-EB3 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

### **Shipping**

Blue Ice

# **Anti-EB3 Antibody - Protocols**

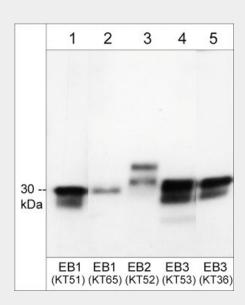




Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

# **Anti-EB3 Antibody - 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).

### **Anti-EB3 Antibody - Background**

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