

Product datasheet

Anti-MAPRE1 antibody [KT51] ab53358

★★★★★ 4 Abreviews 7 References 2 Images

Overview

Product name	Anti-MAPRE1 antibody [KT51]
Description	Rat monoclonal [KT51] to MAPRE1
Host species	Rat
Tested applications	Suitable for: IP, ELISA, WB, ICC/IF, Flow Cyt, ICC
Species reactivity	Reacts with: Mouse, Hamster, Human
Immunogen	The C terminal part of Mouse MAPRE1 (amino acids 125-268) fused to a tag, purified from E. coli BL21 bacteria.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at 4°C (stable for up to 12 months). Store at -20°C or -80°C.
Storage buffer	Preservative: 0.1% Sodium Azide Constituents: PBS
Purity	Protein G purified
Clonality	Monoclonal
Clone number	KT51
Isotype	IgG2a

Applications

Our [Abpromise guarantee](#) covers the use of **ab53358** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

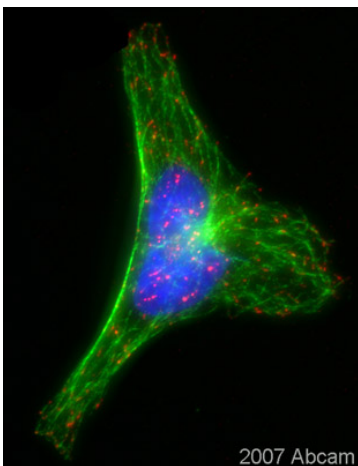
Application	Abreviews	Notes
IP		Use a concentration of 2 µg/ml.
ELISA		Use at an assay dependent concentration.
WB	★★★★★	1/500 - 1/7000. Predicted molecular weight: 30 kDa.

Application	Abreviews	Notes
ICC/IF	★★★★★	1/100 - 1/1000.
Flow Cyt		Use 1µg for 10 ⁶ cells. ab18450 - Rat monoclonal IgG2a, is suitable for use as an isotype control with this antibody.
ICC	★★★★★	Use at an assay dependent concentration.

Target

Function	May be involved in microtubule polymerization, and spindle function by stabilizing microtubules and anchoring them at centrosomes. May play a role in cell migration.
Tissue specificity	Ubiquitously expressed.
Sequence similarities	Belongs to the MAPRE family. Contains 1 CH (calponin-homology) domain. Contains 1 EB1 C-terminal domain.
Domain	Composed of two functionally independent domains. The N-terminal domain forms an hydrophobic cleft involved in microtubule binding and the C-terminal is involved in the formation of mutually exclusive complexes with APC and DCTN1.
Cellular localization	Cytoplasm > cytoskeleton. Cytoplasm > cytoskeleton > centrosome. Associated with the microtubule network at the growing distal tip of microtubules. Also enriched at the centrosome.

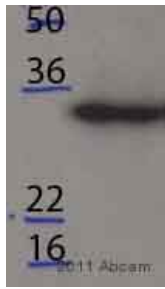
Images



ab53358 staining MAPRE1 in HeLa cells (red). Cells were fixed in methanol, permeabilised with 0.5% Triton X100/ PBS and counterstained both with DAPI - to highlight the nucleus (blue) - and an anti-tubulin antibody (green). Please refer to abreview for further experimental details.

Immunocytochemistry/ Immunofluorescence - Anti-MAPRE1 antibody [KT51] (ab53358)

Image courtesy of an abreview submitted by Dr. Kirk McManus



Western blot - Anti-MAPRE1 antibody [KT51] (ab53358)
Image courtesy of an anonymous Abreview.

Anti-MAPRE1 antibody [KT51] (ab53358) at 1/1000 dilution + lysate prepared from HeLa cells at 50 μ g

Secondary

Rabbit Anti-Rat IgG H&L (HRP) (ab6734) at 1/2000 dilution

Developed using the ECL technique.

Predicted band size: 30 kDa

Exposure time: 5 seconds

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