

Product Information

Anti-TRIP6 antibody, Mouse monoclonal
clone TRP(N)-12, purified from hybridoma cell culture

Product Number **SAB4200014**

Product Description

Monoclonal Anti-TRIP6 (mouse IgG1 isotype) is derived from the hybridoma TRP(N)-12 produced by the fusion of mouse myeloma cells and splenocytes from BALB/c mice immunized with a synthetic peptide corresponding to a sequence at the N-terminal of human TRIP6 (GeneID: 7205), conjugated to KLH. The corresponding sequence is identical in monkey and bovine, it differs by 3 amino acids in rat and dog, and 4 amino acids in mouse. The isotype is determined by ELISA using Mouse Monoclonal Antibody Isotyping Reagents, Product Number ISO2. The antibody is purified from the culture supernatant of hybridoma cells grown in a bioreactor.

Monoclonal Anti-TRIP6 recognizes human and bovine TRIP6. The antibody may be used in several immunochemical techniques including immunoblotting (~50 kDa).

TRIP6, also known as ZRP-1 is a member of the zyxin family. The gene encodes a protein with three LIM zinc-binding domains at its carboxy-terminus, a proline-rich region, and nuclear export signals at its N-terminus.¹ TRIP6 transcripts are strongly detected in highly vascularized tissues such as lung, placenta, heart, and kidney. The protein localizes to focal adhesion sites and along actin stress fibers.

Recruitment of TRIP6 to the plasma membrane occurs in a lysophosphatidic acid (LPA)-dependent manner and it also regulates LPA-induced cell migration.^{2,3} TRIP6 shares high structural and subcellular localization similarities with zyxin. Therefore, it is postulated to serve as a docking site for the assembly of multimeric protein complexes involved in regulating cytoskeleton assembly and cell motility.

Reagent

Supplied as a solution in 0.01 M phosphate buffered saline, pH 7.4, containing 15 mM sodium azide as a preservative.

Antibody concentration: ~1.0 mg/mL

Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses.

Storage/Stability

Store at -20 °C. For continuous use, the product may be stored at 2-8 °C for up to one month. For extended storage, freeze at -20 °C in working aliquots. Repeated freezing and thawing, or storage in "frost-free" freezers, is not recommended. If slight turbidity occurs upon prolonged storage, clarify the solution by centrifugation before use. Working dilution samples should be discarded if not used within 12 hours.

Product Profile

Immunoblotting: a working antibody concentration of 0.5-1.0 µg/mL is recommended using a whole extract of human HeLa cells.

Note: In order to obtain best results in various techniques and preparations, it is recommended to determine optimal working dilutions by titration.

References

1. Wang, Y., and Gilmore, T.D., *Biochem. Biophys. Acta*, **1538**, 260-272 (2001).
2. Yi, J. et al., *J. Biol. Chem.*, **277**, 9580-9589 (2002).
3. Xu, J. et al., *J. Biol. Chem.*, **279**, 10459-10468 (2004).

RC,VS,GG,TD,KAA,PHC,MAM 05/20-1