

Product Information

Anti-ELMO1 (N-terminal)

produced in rabbit, affinity isolated antibody

Product Number **E2533**

Product Description

Anti-ELMO1 (N-terminal) is produced in rabbit using as immunogen a synthetic peptide corresponding to a sequence at the N-terminal of human ELMO1 (GeneID: 9844), conjugated to KLH. The corresponding sequence is identical in rat, mouse, bovine, monkey, and dog. The antibody is affinity-purified using the immunizing peptide immobilized on agarose.

Anti-ELMO1 (N-terminal) recognizes human and mouse ELMO1. The antibody may be used in various immunochemical techniques including immunoblotting (~75 kDa) and immunoprecipitation. Detection of the ELMO1 band by immunoblotting is specifically inhibited by the immunizing peptide.

ELMO1 (engulfment and cell motility 1) is a member of the evolutionarily conserved family of ELMO proteins that regulate actin cytoskeleton reorganization during engulfment and cell migration.^{1,2} ELMO1 and Dock180 function together as a guanine exchange factor (GEF) for the small GTPase Rac, leading to its activation and cytoskeleton rearrangement.³ ELMO1 directly binds to Dock180 via a C-terminal PH domain, and to the active form of the small GTPase RhoG, via the N-terminal domain, targeting the ELMO/Dock180 complex to the membrane.^{4,5} ELMO1 also interacts with BAI1, an engulfment receptor for apoptotic cells upstream of the ELMO1/Dock180/Rac module.⁶ High expression levels of ELMO1 and Dock180 are linked to the invasive phenotype of glioma cells.⁷

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

For R&D use only. Not for drug, household, or other uses. Please consult the Safety Data Sheet for information regarding hazards and safe handling practices.

Storage/Stability

For continuous use, store at 2–8 °C for up to one month. For extended storage, freeze in working aliquots. Repeated freezing and thawing 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 1-2 µg/mL is recommended using a whole extract of human Jurkat cells.

Immunoprecipitation: a working antibody amount of 1-2 µg is recommended using a lysate of mouse A20 cells.

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

References

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VS,ST,KAA,TD,PHC,MAM 03/19-1