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Product Information

Monoclonal anti-SH3GL1 (C-terminal), clone Ep2.17
produced in mouse, purified from hybridoma cell culture

Product Number **SAB4200650**

Product Description

Monoclonal Anti-SH3GL1 (C-terminal) (mouse IgG2b isotype) is derived from the hybridoma Ep2.17 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 C-terminal region of human SH3GL1 (GeneID: 6455), conjugated to KLH. The corresponding sequence is identical in mouse and rat. The isotype is determined by ELISA using Mouse Monoclonal Antibody Isotyping Reagents, Catalog Number ISO2. The antibody is purified from culture supernatant of hybridoma cells grown in a bioreactor.

Monoclonal Anti-SH3GL1 (C-terminal) recognizes human SH3GL1. The product may be used in several immunochemical techniques including immunoblotting (~41 kDa) and flow cytometry.

SH3GL1 (SH3-domain GRB2-like 1), also known as Endophilin-A2, is a member of the endophilin family of Src homology 3 (SH3) domain-containing proteins. The SH3 family members are involved in transduction of signals for cell polarization, motility, enzymatic activation, and transcriptional regulation. The SH3 domain drives protein–protein interactions through binding to proline-rich ligands. The SH3GL proteins have a novel N-terminal segment, and a peculiar tissue distribution: SH3GL1 is ubiquitous, SH3GL2 located in the brain, and SH3GL3 in brain and testis.[1]
SH3GL1 was immunoprecipitated with synaptojanin-1, a proline-rich protein which is concentrated in the pre-synaptic compartment region of nerve terminals, and possess a potential role in endocytosis.[2]
SH3GL1 was reported to be involved in several brain tumors, such as glioma, where its levels were increased in proportion to the tumor progression.[3] In cells generated from children malignant brain tumor medulloblastoma (MB), SH3GL1 expression was found to be regulated by the miRNA, miR-218.[4]

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. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Storage/Stability

For extended storage, freeze at –20 ^{0}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 concentration of 1-2 µg/mL is recommended using whole extracts of HeLa.

Flow Cytometry: a working dilution of 2-5 µg /test is recommended using HeLa cells.

Note: In order to obtain the best results using various techniques and preparations, we recommend determining optimal working dilutions by titration. Use of sensitive film is recommended.

References

1. Giachino, C., et al., *Genomics*, **41**, 427-434 (1997).
2. Cestra, G., et al., *J. Biol. Chem.*, **274**, 32001-32007 (1999).
3. Matsutani, T.J., et al*., J. Exp. Clin. Cancer Res.*, **31**, 85 (2012).
4. Shi, J., et al., *Mol. Med. Rep.*, **8**, 1111-1117 (2013).

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