GRAP2 monoclonal antibody

Catalog: MB66606 Host: Mouse Reactivity: Human

BackGround:

GRB2-related adaptor downstream of Shc (GADS) belongs to the GRB2 family of adaptor proteins. It is a hematopoietic cell-specific signaling adaptor protein that harbors amino- and carboxy-terminal SH3 domains, a central SH2 domain, and a unique linker region that is rich in proline and glutamine residues. The presence of SH2 and SH3 domains within GADS strongly suggest that it functions in signal transduction cascades by facilitating protein-protein interactions. In the context of T cells, research studies have demonstrated that GADS interacts with LAT and SLP-76 signaling complexes to facilitate NFAT activation downstream of TCR engagement. Given its role as a fundamental mediator of TCR signaling, GADS is subject to multiple modes of negative regulation to limit TCR signal strength. For example, research studies have demonstrated that HPK1 directly phosphorylates GADS at Thr262 within its linker region, a modification that promotes 14-3-3 binding and dissociation of signaling complexes nucleated by LAT, SLP-76, and GADS. The linker region of GADS is also subject to caspase-mediated cleavage, which separates its SH2 and and SH3 domains and thus impairs the ability of GADS to bridge LAT and SLP-76 signaling complexes for transduction of faithful TCR signals.

Product:

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide, pH 7.3.

Molecular Weight:

~ 40 kDa

Swiss-Prot:

O75791

Purification&Purity:

The antibody was purified by immunogen affinity chromatography.

Applications:

WB (1/500 - 1/1000)

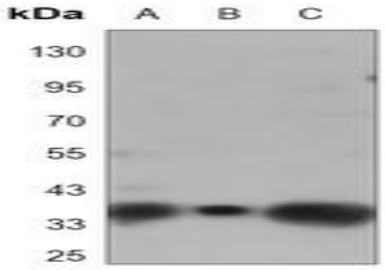
Storage&Stability:

Store at 4℃ short term. Aliquot and store at -20℃ long term. Avoid freeze-thaw cycles.

Specificity:

Recognizes endogenous levels of GRAP2 protein.

DATA:



Western blot analysis of GRAP2 expression in CEM (A), Molt4 (B), Jurkat (C) whole cell lysates.

Note:

For research use only, not for use in diagnostic procedure.

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