Product Information

# Anti-Grpl/GADS Antibody, Mouse Monoclonal

Clone UW40, Purified from Hybridoma Cell Culture

**SAB4200221**

## Product Description

Monoclonal Anti-GrpL/GADS (mouse IgG2a isotype) is derived from the hybridoma UW40 produced by the fusion of mouse myeloma cells and splenocytes from BALB/c mice immunized with a fusion protein expressing human GrpL (GeneID: 9402). The isotype is determined by ELISA using Mouse Monoclonal Antibody Isotyping Reagents (Cat. No. ISO2). The antibody is purified from culture supernatant of hybridoma cells grown in a bioreactor.

Monoclonal Anti- GrpL/GADS recognizes human and mouse GrpL. The antibody may be used in several immunochemical techniques including immunoblotting (~ 41 kDa), immunoprecipitation and flow cytometry.[1-3]

Grb2-related protein of the lymphoid system (GrpL), also known as GADS, Mona and Grb2-related adaptor protein 2 (GRAP2), is a member of the GRB2/Sem5/Drk family. GrpL is an adaptor-like protein expressed specifically in hematopoietic cells, which plays a role in the coordination of tyrosine kinase mediated signal transduction. Like its related family members, Grb2 and Grb2-related adaptor protein (GRAP), GrpL contains an SH2 domain flanked by two SH3 domains but differs from them by having a proline- rich region. GrpL constitutively interacts with SLP-76 through its C-terminal SH3 domain and, following TCR engagement, it binds LAT through its SH2 domain.

These interactions are essential for the regulation of calcium signaling in T cells, the activation of the transcription factor NF-AT and the induction of IL-2.[1-5]

## 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.

## Storage/Stability

For continuous use, store 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 concentration of 0.5-1.0 µg/mL is recommended using whole extracts of human Jurkat cells.

**Note**: In order to obtain the best results using various techniques and preparations, we recommend determining optimal working dilutions by titration.

## References


1. Yankee, T.M., et al., Proc. Natl. Acad. Sci. USA, **98**: 6789-6793 (2001).
2. Yankee, T.M., et al., J. Immunol., **170**: 349-355 (2003).
3. Yankee, T.M., et al., J. Immunol., **173**: 1711-1720 (2004).
4. Law, C.L., et al., J. Exp. Med., **189**: 1243-1253 (1999).
5. Liu, S.K-W., et al., Oncogene, **20**: 6284-6290 (2001).


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