

GCSAM/HGAL Antibody



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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W, IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 25	Source/Isotype: Rabbit	UniProt ID: #Q8N6F7	Entrez-Gene Id: 257144
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Product Usage Information

Application

Western Blotting
Immunoprecipitation

Dilution

1:1000
1:50

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. *Do not aliquot the antibody.*

Specificity/Sensitivity

GCSAM/HGAL Antibody recognizes endogenous levels of total GCSAM/HGAL protein.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human GCSAM/HGAL protein. Antibodies are purified by peptide affinity chromatography.

Background

Germinal center-associated signaling and motility protein/Human germinal center-associated lymphoma (GCSAM/HGAL) is reported to be a marker for germinal center B cells and germinal center-derived B-cell lymphomas (1). Research studies have shown that GCSAM is an adaptor protein anchored to the plasma membrane via myristoyl and palmitoyl linkages and is phosphorylated on multiple tyrosine residues by Syk and Lyn upon engagement of the B cell antigen receptor (BCR), which promotes its interaction with Grb2 and Syk. Binding of GCSAM to Syk positively regulates BCR signaling by enhancing Syk kinase activity (2-5). In addition to regulating antigen-induced BCR signaling in germinal center B cells, research studies have demonstrated that GCSAM restricts motility of B cells within the germinal center microenvironment through activation of RhoA signaling (6). Through regulation of these two processes, GCSAM has been implicated in the differentiation of germinal center B cells to either plasma cells or memory B cells (7).

Background References

1. Natkunam, Y. et al. (2005) *Blood* 105, 3979-86.
2. Pan, Z. et al. (2007) *Br J Haematol* 137, 578-90.
3. Jiang, X. et al. (2019) *Blood Adv* 3, 2286-97.
4. Romero-Camarero, I. et al. (2013) *Nat Commun* 4, 1338.
5. Lu, X. et al. (2015) *Blood* 125, 649-57.
6. Jiang, X. et al. (2010) *Blood* 116, 5217-27.
7. Dagan, L.N. et al. (2012) *Blood* 119, 513-20.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting **IP:** Immunoprecipitation

Cross-Reactivity Key

H: Human

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