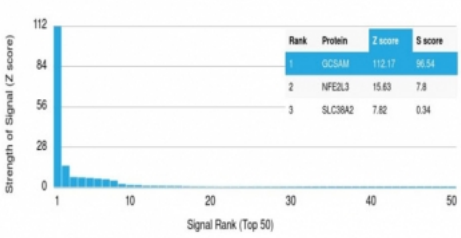
GCSAM Antibody / HGAL [clone HGAL/2834] (V4982)

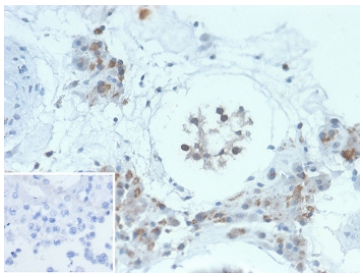
Catalog No.	Formulation	Size
V4982-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V4982-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V4982SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	HGAL/2834
Purity	Protein A/G affinity
UniProt	Q8N6F7
Localization	Cytoplasm, Cell membrane
Applications	Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT
Limitations	This GCSAM antibody is available for research use only.



Analysis of a HuProt(TM) microarray containing more than 19,000 full-length human proteins using GCSAM antibody (clone HGAL/2834). These results demonstrate the foremost specificity of the HGAL/2834 mAb. Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt(TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt(TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.



IHC staining of FFPE human testis tissue with GCSAM antibody (clone HGAL/2834). Inset: PBS used in place of primary Ab (secondary Ab negative control). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.

Description

Recognizes a protein identified as HGAL, also called GCSAM (Germinal center-associated signaling and motility protein). It contains a putative PDZ-interacting domain, an immunoreceptor tyrosine-based activation motif (ITAM), and two putative SH2 binding sites. In B cells, its expression is specifically induced by interleukin-4. HGAL is specifically expressed in germinal center B-cells, but is absent in mantle and marginal zone B-cells and in the inter-follicular and para-cortical regions in normal tonsils and lymph nodes. Its high degree of specificity for germinal center B-cells makes anti-HGAL an ideal marker for the detection of germinal center-derived B-cell lymphomas. HGAL expression has been used to help elucidate nodal marginal zone lymphoma (NMZL) from cases of diffuse follicle center lymphoma. Additionally, HGAL expression was shown to correlate with survival in patients with diffuse large B-cell lymphoma (DLBCL).

Application Notes

Optimal dilution of the GCSAM antibody should be determined by the researcher.

Immunogen

A recombinant partial protein sequence (within amino acids 1-200) from the human protein was used as the immunogen for the GCSAM antibody.

Storage

Aliquot the GCSAM antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.