

Datasheet for ABIN7599294
anti-GHITM antibody (AA 1-345)



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Overview

Quantity:	100 µg
Target:	GHITM
Binding Specificity:	AA 1-345
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This GHITM antibody is un-conjugated
Application:	ELISA, Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunocytochemistry (ICC), Flow Cytometry (FACS)

Product Details

Purpose:	Anti-GHITM Antibody Picoband®
Immunogen:	E.coli-derived human GHITM recombinant protein (Position: M1-K345).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-GHITM Antibody Picoband® (ABIN7599294). Tested in ELISA, Flow Cytometry, IF, IHC, ICC, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	GHITM
Alternative Name:	GHITM (GHITM Products)
Background:	<p>Synonyms: Interleukin-17B, IL-17B, Cytokine CX1, Cytokine-like protein ZCYTO7, Neuronal interleukin-17-related factor, Il17b, Nirf, Zcyto7</p> <p>Tissue Specificity: Expressed in adult pancreas, small intestine, stomach, spinal cord and testis. Less pronounced expression in prostate, colon mucosal lining, and ovary.</p> <p>Background: Growth hormone-inducible transmembrane protein (GHITM), also known as transmembrane BAX inhibitor motif containing protein 5 (TMBIM5), is a protein that in humans is encoded by the GHITM gene on chromosome 10. GHITM, also known as MICS1, TMBIM5 or DERP2, is a mitochondrial protein which localizes in the inner membrane. GHITM is involved in mitochondrial morphology in specific cristae structures and the apoptotic release of cytochrome c from the mitochondria. The gene of GHITM maps to chromosome 10q23.1, and encodes a 345-amino-acid protein with a calculated molecular mass of 37 kDa. The apparent molecular weight has been reported to be 42 kDa, the increased size in the protein may be due to post-translational modifications. GHITM can be cleaved into smaller forms of 23-27 kDa.</p>
Molecular Weight:	37 kDa
Gene ID:	27069
UniProt:	Q9H3K2
Pathways:	SARS-CoV-2 Protein Interactome

Application Details

Application Notes:	<p>Western blot, 0.25-0.5 µg/mL, Human, Mouse, Rat</p> <p>Immunohistochemistry(Paraffin-embedded Section), 2-5 µg/mL, Human, Rat</p> <p>Immunocytochemistry/Immunofluorescence, 5 µg/mL, Human</p> <p>Flow Cytometry (Fixed), 1-3 µg/1×10⁶ cells, Human</p> <p>ELISA, 0.1-0.5 µg/mL, -</p> <p>1. Gross, M. B. Personal Communication. Baltimore, Md. 2/23/2021. 2. Lisak, D. A., Schacht, T., Enders, V., Habicht, J., Kiviluoto, S., Scheider, J., Henke, N., Bultynck, G., Methner, A. The transmembrane Bax inhibitor motif (TMBIM) containing protein family: tissue expression, intracellular localization and effects on the ER Ca(2+)-filling state. Biochim. Biophys. Acta 1853: 2104-2114, 2015. 3. Oka, T., Sayano, T., Tamai, S., Yokota, S., Kato, H., Fujii, G., Mihara, K. Identification of a novel protein MICS1 that is involved in maintenance of mitochondrial morphology and apoptotic release of cytochrome c. Molec. Biol. Cell 19: 2597-2608, 2008.</p>
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Application Details

Restrictions: For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Adding 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Storage:	4 °C,-20 °C
Storage Comment:	At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing.