Datasheet for ABIN964881

anti-UBASH3B antibody (C-Term)

2 Images | 2 Publications

Go to Product page

Overview

Quantity:	100 µg
Target:	UBASH3B (STS1)
Binding Specificity:	C-Term
Reactivity:	Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This UBASH3B antibody is un-conjugated
Application:	Western Blotting (WB), ELISA

Product Details

Immunogen:	This affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to the of mouse Sts-1.
Isotype:	IgG
Characteristics:	Concentration Definition: by UV absorbance at 280 nm
Sterility:	Sterile filtered

Target Details

Target:	UBASH3B (STS1)
Alternative Name:	Sts-1 (STS1 Products)
Background:	Sts-1 is a protein that inhibits endocytosis of epidermal growth factor receptor (EGFR) and

Target Details

	platelet-derived growth factor receptor. Sts-1 and Sts-2 (formerly p70 and Clip4, respectively) have been found to interact with Cbl, an ubiquitin ligase that plays a critical role in attenuation of receptor tyrosine kinase signaling by inducing ubiquitination and promoting their sorting for endosomal degradation. Sts-1 and Sts-2 contain SH3 domains that interact with Cbl, Ub-associated domains, which bind directly to mono-Ub or to the EGFR/Ub chimera, as well as phosphoglycerate mutase domains that mediate oligomerization of Sts-1/2. Sts-1 and Sts-2 also have been found to negatively regulate signaling pathways that control T cell receptors, which in turn affect the extent and duration of the T cell response to foreign pathogens. Synonyms: Cbl interacting protein p70 antibody, Cbl interacting protein Sts 1 antibody, Nm23 phosphorylated unknown substrate antibody, p70 antibody, SH3 domain containing 70 kDa protein antibody
Gene ID:	84959, 24497612
UniProt:	Q8TF42

Application Details

Application Notes:	This affinity purified antibody has been tested for use in ELISA and by western blot. Specific conditions for reactivity should be optimized by the end user. Expect a band
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	0.63 mg/mL
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C

Publications

Product cited in:	Lee, Lee, Jung, Park, Park, Hahm: "Late reactivation of sonic hedgehog by Helicobacter pylori results in population of gastric epithelial cells that are resistant to apoptosis: implication for gastric carcinogenesis." in: **Cancer letters**, Vol. 287, Issue 1, pp. 44-53, (2010) (PubMed).

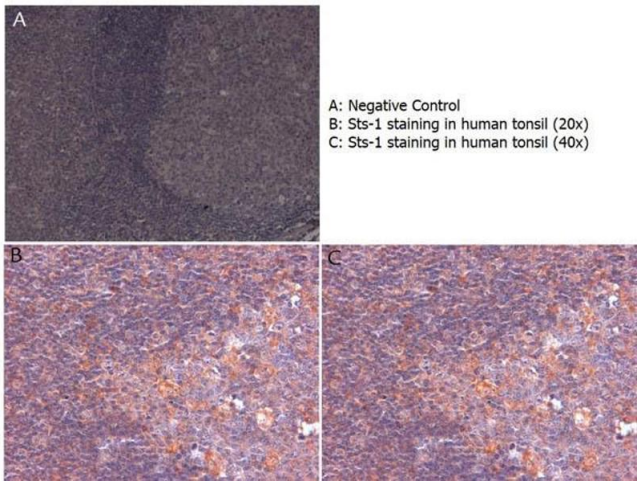
Publications

Dierker, Dreier, Migone, Hamer, Grobe: "Heparan sulfate and transglutaminase activity are required for the formation of covalently cross-linked hedgehog oligomers." in: **The Journal of biological chemistry**, Vol. 284, Issue 47, pp. 32562-71, (2009) (PubMed).

Images

Western Blotting

Image 1. Western blot using Affinity Purified anti-Sts-1 antibody shows detection of a band ~70 kDa corresponding to mouse Sts-1. Approximately 1.0 ?g of recombinant (truncated) Sts-1-GST was separated by SDS-PAGE and transferred onto nitrocellulose. After blocking the membrane was probed with the primary antibody diluted to 0.3?ug/ml overnight at 4° C followed by washes and reaction with a 1:10,000 dilution of IRDye800 conjugated Gt-a-Rabbit IgG [H&L] MX . IRDye800 fluorescence image was captured using the Infrared Imaging System developed by LI-COR. IRDye is a trademark of LI-COR, Inc. Other detection systems will yield similar results.



Immunohistochemistry

Image 2. Immunohistochemistry with anti-Sts-1 antibody showing Sts-1 staining of histiocytic elements in cytoplasm of human tonsil at 20x and 40x (B & C). Formalin fixed/paraffin embedded sections were subjected to heat induced epitope retrieval (HIER) at pH 6.2 and then incubated with rabbit anti-Sts-1 antibody at 4.0 µg/ml for 60 minutes. The reaction was developed using MACH 1 universal HRP polymer detection system and visualized with 3’3-diamino-benzidine substrate (DAB).