

Datasheet for ABIN964881

## anti-UBASH3B antibody (C-Term)



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### Overview

Quantity:	100 µg
Target:	UBASH3B (STS1)
Binding Specificity:	C-Term
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Application:	Immunohistochemistry (IHC), Western Blotting (WB), ELISA, Fluorescence Microscopy (FM)

### Product Details

Purpose:	Sts-1 Antibody
Immunogen:	<p>Immunogen: This affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to the C-terminus of mouse Sts-1.</p> <p>Immunogen Type: Conjugated Peptide</p>
Isotype:	IgG
Cross-Reactivity (Details):	This affinity purified antibody is directed against mouse Sts-1 protein.
Characteristics:	<p>Synonyms: rabbit anti-Sts-1 antibody, Sts1, Sts 1, Ubiquitin-associated and SH3 domain-containing protein B, Cbl interacting protein p70 antibody, Suppressor of T-cell receptor signaling 1, T-cell ubiquitin ligand 2, TULA-2, Tyrosine-protein phosphatase STS1/TULA2, Ubash3B</p>
Purification:	The product was affinity purified from monospecific antiserum by immunoaffinity purification.

## Product Details

Sterility: Sterile filtered

## Target Details

Target: UBASH3B (STS1)

Alternative Name: UBASH3B ([STS1 Products](#))

Background: Background: Sts-1 is a protein that inhibits endocytosis of epidermal growth factor receptor (EGFR) and 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.

Gene ID: 84959, 24497612

UniProt: [Q8TF42](#)

## Application Details

Application Notes: Immunohistochemistry Dilution: 4 µg/mL  
Application Note: This affinity purified antibody has been tested for use in ELISA, IHC, and by western blot. Specific conditions for reactivity should be optimized by the end user. Expect a band  
Western Blot Dilution: 1:500 - 1:3,000  
ELISA Dilution: 1:2,000 - 1:10,000  
IF Microscopy Dilution: User Optimized  
Other: User Optimized

Restrictions: For Research Use only

## Handling

Format: Liquid

Concentration: 0.63 mg/mL

Buffer: Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2

## Handling

	Stabilizer: None
	Preservative: 0.01 % (w/v) Sodium Azide
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:	4 °C, -20 °C
Storage Comment:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiry Date:	12 months

## Publications

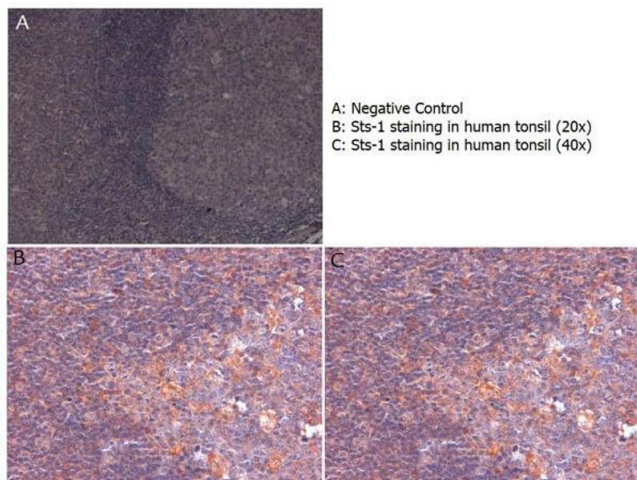
Product cited in:	Carpino, Turner, Mekala, Takahashi, Zang, Geiger, Doherty, Ihle: "Regulation of ZAP-70 activation and TCR signaling by two related proteins, Sts-1 and Sts-2." in: <b>Immunity</b> , Vol. 20, Issue 1, pp. 37-46, (2004) ( <a href="#">PubMed</a> ).
	Carpino, Kobayashi, Zang, Takahashi, Jou, Feng, Nakajima, Ihle: "Identification, cDNA cloning, and targeted deletion of p70, a novel, ubiquitously expressed SH3 domain-containing protein." in: <b>Molecular and cellular biology</b> , Vol. 22, Issue 21, pp. 7491-500, (2002) ( <a href="#">PubMed</a> ).

## 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 µg 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 µg/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).