

Anti-Sts-1 UBASH3B Antibody

Catalog Number: A09570

About UBASH3B

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.

Overview

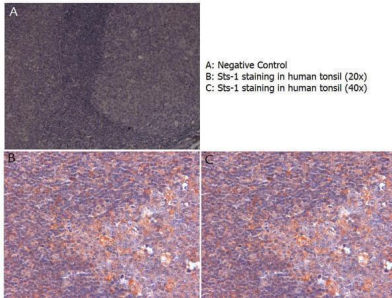
Product Name	Anti-Sts-1 UBASH3B Antibody
Reactive Species	Human, Mouse
Description	Boster Bio Anti-Sts-1 UBASH3B Antibody (Catalog # A09570). Tested in ELISA, IHC, WB applications. This antibody reacts with Human, Mouse.
Application	ELISA, IF, IHC, WB
Clonality	Polyclonal
Formulation	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2, 0.01% (w/v) Sodium Azide
Storage Instructions	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. Expiration date is one (1) year from date of opening. (Ship on dry ice.)
Host	Rabbit
Uniprot ID	Q8TF42

Technical Details

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.
Predicted Reactive Species	Chicken, Primate
Cross Reactivity	No cross reactivity with other proteins.
Isotype	IgG
Form	Liquid (sterile filtered)

Concentration	0.95 mg/mL by UV absorbance at 280 nm
Purification	This affinity purified antibody is directed against mouse Sts-1 protein. The product was affinity purified from monospecific antiserum by immunoaffinity purification. A BLAST analysis was used to suggest reactivity with this protein from mouse, human, rat and dog based on 100% homology for the immunogen sequence. Cross-reactivity with Sts-1 homologues from other sources has not been determined.
Suggested Dilutions	ELISA: 1:2,000 - 1:10,000 IHC: 4µg/ml IF Microscopy: User optimized WB: 1:500 - 1:3,000 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

Anti-Sts-1 UBASH3B Antibody (A09570) Images



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).



Western blot using Boster's 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 0.3ug/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 (611-132-122). IRDye800 fluorescence image was captured using the Odyssey® Infrared Imaging System developed by LI-COR. IRDye is a trademark of LI-COR, Inc. Other detection systems will yield similar results.

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