

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects human and rat UBASH3B/STS1 in Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human UBASH3B/STS1 Gly48-Phe253 Accession # Q8TF42
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunocytochemistry	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

UBASH3B (Ubiquitin-associated domain SH3 domain-containing protein B; also STS1 and TULA2) is a cytosolic 72-74 kDa member of the TULA (T cell ubiquitin ligand) family of proteins. It is widely expressed and appears to perform multiple functions. As a histidine phosphatase, it dephosphorylates Syk and Syk-related molecules, thus dampening signaling pathways. Via ubiquitin and SH3 binding domains, it binds to monoubiquitinated RTKs and Cbl, thereby increasing RTK activity by blocking its polyubiquitination and subsequent lysosomal degradation. There is also the potential for phosphodiesterase activity directed towards tRNA activity. Human UBASH3B is 649 amino acids (aa) in length. It contains one UBA domain (aa 39-75), a proline-rich ligand binding SH3 region (aa 257-316), and a PGM/histidine phosphatase domain (aa 386-598). UBASH3B is suggested to dimerize. Over aa 47-253, human and mouse UBASH3B are identical in amino acid sequence.

PRODUCT SPECIFIC NOTICES

This product is provided under an agreement between Life Technologies Corporation and R&D Systems, Inc, and the manufacture, use, sale or import of this product is subject to one or more US patents and corresponding non-US equivalents, owned by Life Technologies Corporation and its affiliates. The purchase of this product conveys to the buyer the non-transferable right to use the purchased amount of the product and components of the product only in research conducted by the buyer (whether the buyer is an academic or for-profit entity). The sale of this product is expressly conditioned on the buyer not using the product or its components (1) in manufacturing; (2) to provide a service, information, or data to an unaffiliated third party for payment; (3) for therapeutic, diagnostic or prophylactic purposes; (4) to resell, sell, or otherwise transfer this product or its components to any third party, or for any other commercial purpose. Life Technologies Corporation will not assert a claim against the buyer of the infringement of the above patents based on the manufacture, use or sale of a commercial product developed in research by the buyer in which this product or its components was employed, provided that neither this product nor any of its components was used in the manufacture of such product. For information on purchasing a license to this product for purposes other than research, contact Life Technologies Corporation, Cell Analysis Business Unit, Business Development, 29851 Willow Creek Road, Eugene, OR 97402, Tel: (541) 465-8300. Fax: (541) 335-0354.