

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 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 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.

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