

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects human, mouse, rat STI1 in Western blots and detects recombinant human STI1 in direct ELISAs.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human STI1 Met1-Arg543 Accession # P31948
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 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.

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

STI1 (Stress-induced phosphoprotein 1; also HOP and STIP-1) is a 60-62 kDa member of the STI-1 family of proteins. It is widely expressed, and participates in the formation of functional steroid hormone receptor complexes. Steroid receptors (SR) require proper folding to achieve optimal conformation. In the case of progesterone and glucocorticoid receptors, interaction with chaperones hsp70 and hsp90 facilitates this folding. STI1 is not a chaperone, but a mediator of SR-hsp70-hsp90 interaction. STI1 first binds dimeric hsp90. This trimer then interacts with a SR-(monomeric)hsp70-ADP protein heterodimer to form a SR-hsp70-STI1-hsp90 pentamer that subsequently dissociates into a mature hsp90-SR complex. The STI1-hsp90 complex is also found extracellularly and may contribute to MMP-2 activation. Human STI1 is 543 amino acids (aa) in length. It contains an initial N-terminal TPR domain (aa 4-105) that binds to hsp70, followed by a second TPR domain (aa 225-461) that binds to dimeric hsp90. There are at least 10 acetylated Lys residues plus four utilized phosphorylation sites. Zone potential isoform variant is reported that contains a 48 aa substitution for Gln3. Full-length human STI1 shares 97% aa sequence identity with mouse STI1.

PRODUCT SPECIFIC NOTICES

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