Human TROY/TNFRSF19 Alexa Fluor® 488-conjugated Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF1548G
100 µg

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human TROY/TNFRSF19 in direct ELISAs and Western blots. In direct ELISAs, approximately 20% cross-reactivity with recombinant mouse (rm) TROY is observed and less than 1% cross-reactivity with recombinant human (rh) 4-1BB, rhBA
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	*S. frugiperda* insect ovarian cell line *Sf* 21-derived recombinant human TROY/TNFRSF19 Glu30-Leu170 Accession # AAF71828
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.

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

TROY, also known as TAJ (Toxicity and JNK inducer), and TRADE, is a type I tramsmembrane glycoprotein belonging to the tumor necrosis factor receptor superfamily (TNFRSF) and has been designated TNFRSF19. Two alternatively spliced transcript variants for human TROY, encoding a 423 amino acid (aa) residues isoforms 1 precursor and a 417 aa isoform 2 precursor have been cloned. The two isoforms differ in their cytoplasmic C-terminal residues. In mouse, a soluble TROY isoform and a transmembrane isoform with a short cytoplasmic tail have also been described. Human TROY isoform 1 cDNA encodes a precursor protein with a putative 23 aa signal peptide, a 147 aa extracellular domain containing two TNF receptor cysteine-rich domains, a 23 aa transmembrane domain and a 230 aa cytoplasmic region containing no death domain. The extracellular domain of human TROY shares 92% aa sequence identity with that of the mouse TROY. In their cytoplasmic domains, the two proteins also share 57% sequence homology. Among TNFRSF members, the extracellular region of TROY is most closely related to EDAR, exhibiting 33% homology. TROY expression has been found in many different embryonic and adult tissues, and is particularly strong in embryonic brain and skin. TROY has been shown to interact with TRAF family members, and to activate the JNK signaling pathway. Although TROY lacks a death domain, it can induce apoptosis by a caspase-independent mechanism. It has been suggested that TROY has pleiotropic functions during embryonic development as well as in adults, particularly in the development of skin and hair follicles. The ligand for TROY has not been identified (1-3).

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