

#### DESCRIPTION

|                           |                                                                                                                                                                                                                                                                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Mouse                                                                                                                                                                                                                                                                       |
| <b>Specificity</b>        | Detects mouse TROY/TNFRSF19 in ELISAs and Western blots. In sandwich immunoassays, less than 2% cross-reactivity with recombinant human TAJ is observed and less than 0.2% cross-reactivity with recombinant mouse (rm) EDAR, rmCD27, rmFas, rmRANK,                        |
| <b>Source</b>             | Polyclonal Goat IgG                                                                                                                                                                                                                                                         |
| <b>Purification</b>       | Antigen Affinity-purified                                                                                                                                                                                                                                                   |
| <b>Immunogen</b>          | <i>S. frugiperda</i> insect ovarian cell line Sf 21-derived recombinant mouse TROY/TNFRSF19<br>Glu30-Leu170<br>Accession # Q9JLL3                                                                                                                                           |
| <b>Conjugate</b>          | Alexa Fluor 700<br>Excitation Wavelength: 675-700 nm<br>Emission Wavelength: 723 nm                                                                                                                                                                                         |
| <b>Formulation</b>        | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide<br><br>*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.

|                                                |                                                                        |
|------------------------------------------------|------------------------------------------------------------------------|
| <b>ELISA Capture (Matched Antibody Pair)</b>   | Optimal dilution of this antibody should be experimentally determined. |
| <b>ELISA Detection (Matched Antibody Pair)</b> | Optimal dilution of this antibody should be experimentally determined. |
| <b>Western Blot</b>                            | Optimal dilution of this antibody should be experimentally determined. |
| <b>Immunohistochemistry</b>                    | Optimal dilution of this antibody should be experimentally determined. |

#### PREPARATION AND STORAGE

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

#### BACKGROUND

TROY, also named Toxicity and JNK inducer (TAJ) and TNFRSF19, is a novel member of the tumor necrosis factor receptor superfamily. The protein putatively encoded by the TROY mRNA is a 416 amino acid (aa) residue type I membrane protein with a 29 aa signal peptide, a 141 aa extracellular domain, a 23 aa transmembrane domain and a 223 aa cytoplasmic domain. Splice variants of mouse TROY (lacking the transmembrane and cytoplasmic domains or with only a 21 aa cytoplasmic tail), have also been identified. Like other members of the TNFRSF, TROY contains characteristic cysteine-rich motifs in the extracellular domain. The cytoplasmic domain of TROY does not have the death domain present in some TNFRSF members, but does contain a major TRAF2 (tumor necrosis factor receptor-associated factor 2)-binding consensus sequence. Mouse TROY shares 92% aa sequence identity with human TROY in their extracellular domains. The two proteins also have 57% homology in their cytoplasmic tails. Among TNFRSF members, TROY is most related to Edar, sharing 33% identity in the extracellular domain. Over-expression of TROY has been reported to activate nuclear factor NFκB and c-Jun N-terminal kinase (JNK) pathways. TROY mRNA is exclusively expressed in the epithelia of various tissues in mouse day 13.5 embryos. In neonatal mice, expression of TROY is predominantly in hair follicles and in neuron-like cells in the cerebrum.

#### PRODUCT SPECIFIC NOTICES

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