

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse TRAIL R2/TNFRSF10B in direct ELISAs and Western blots.
Source	Monoclonal Rat IgG _{2A} Clone # 118929
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse TRAIL R2/TNFRSF10B Asn53-Ser177 (predicted) Accession # Q9QZM4
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 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.
Immunohistochemistry	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

Mouse TRAIL R2, also called DR5, TRICK 2, TNFRSF10B, and MK is a type 1 TNF R superfamily, membrane protein which is a receptor for TRAIL (APO2 ligand). Mouse TRAIL R2 cDNA encodes a 381 amino acid (aa) precursor protein containing an extracellular cysteine-rich domain, a transmembrane domain and a cytoplasmic death domain. Human and mouse TRAIL R2 share 49% aa sequence similarity. The death domains of human TRAIL R1 and TRAIL R2 share high homology with the death domain of mouse TRAIL R2, 76% and 79%, respectively. Binding of trimeric TRAIL to TRAIL R2 induces apoptosis. The induction of apoptosis likely requires oligomerization of the receptor. Besides the death domain containing receptors TRAIL R2 and TRAIL R1/DR4, three TRAIL decoy receptors, TRAIL R3/DcR1, TRAIL R4/DcR2, and OPG, have been reported.

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