

For Research Use Only

DR4 Polyclonal antibody

Catalog Number: 20668-1-AP



Basic Information

Catalog Number:

20668-1-AP

Size:

190 µg/ml

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

NM_003844

GeneID (NCBI):

8797

UNIPROT ID:

O00220

Full Name:

tumor necrosis factor receptor
superfamily, member 10a

Calculated MW:

50 kDa

Purification Method:

Antigen affinity purification

Applications

Tested Applications:

ELISA

Species Specificity:

human

Background Information

Tumor necrosis factor (TNF)-related apoptosis-inducing ligand (TRAIL) is a member of the TNF superfamily. TRAIL activates apoptosis through the death receptors DR4 (also known as TRAILR1 and TNFRSF10A) and DR5 (also known as TRAILR2, KILLER and TNFRSF10B). DR4 and DR5 are single-pass type I membrane proteins that contain intracellular death domains (DD) and upon activation mediate apoptotic signals (PMID: 11163110). Binding of TRAIL to DR4 or DR5 results in receptor oligomerization and recruitment of FAS-associated protein with death domain (FADD) and caspase 8 to form a functional death-inducing signalling complex (DISC). Upon DISC formation, caspase 8 is cleaved and activated, which initiates the subsequent cascade of caspases (aspartate-specific cysteine proteases) mediating apoptosis (PMID: 18813321). DR4 or DR5 promotes the activation of NF-kappa-B and play an important role in inflammation (PMID: 9430227, 19434100).

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

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Selected Validation Data