For Research Use Only

DR4 Polyclonal antibody

Catalog Number:24063-1-AP Featured Product 12 Publications

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Basic Information

Catalog Number:
24063-1-AP

Size:
750 μg/ml

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG20927

GenBank Accession Number:
BC012866

GeneID (NCBI):
8797

UNIPROT ID:
O00220

Full Name:
tumor necrosis factor receptor superfamily, member 10a

Calculated MW:
50 kDa

Observed MW:
37-55 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:2000-1:12000

Applications

Tested Applications:
WB, ELISA

Cited Applications:
WB

Species Specificity:
human

Cited Species:
human, mouse

Positive Controls:

WB : A549 cells, Jurkat cells, HeLa cells, PC-3 cells

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).

Notable Publications

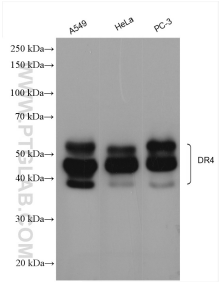
Author	Pubmed ID	Journal	Application
Xingkang Wu	34597653	J Ethnopharmacol	WB
Ran An	31598394	Am J Cancer Res	WB
Juan Yang	27780136	Biomed Pharmacother	WB

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:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 24063-1-AP (DR4 antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.