

Anti-Human DR4 Rabbit Recombinant Antibody

Catalog Number: 98511-1-RR

Basic Information

Catalog Number:

98511-1-RR

Concentration:

100ug, 1000 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

EG4600

GenBank Accession Number:

BC012866

GeneID (NCBI):

8797

UNIPROT ID:

O00220

Full Name:

tumor necrosis factor receptor
superfamily, member 10a

Calculated MW:

50 kDa

Purification Method:

Protein A purification

CloneNo.:

250737E11

Recommended Dilutions:

FC: 0.15 ug per 10⁶ cells in a 100 µl
suspension

Applications

Tested Applications:

FC

Species Specificity:

human

Positive Controls:

FC : HEL92.1.7,

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

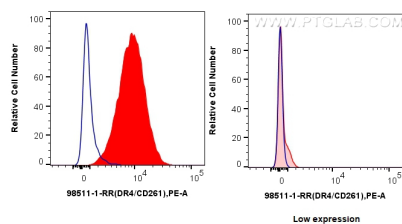
Storage:

Store at 2 - 8°C. Stable for one year after shipment.

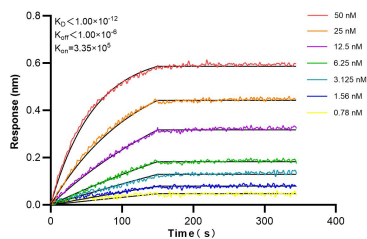
Storage Buffer:

PBS with 0.09% sodium azide, pH7.3

Selected Validation Data



1x10⁶ HEL92.1.7 (left) or 1x10⁶ PBMC cells (right) were surface stained with 0.15 ug Anti-Human DR4 Rabbit RecAb (98511-1-RR, Clone: 250737E11) (red) or 0.15 ug Rabbit IgG Isotype Control RecAb (98136-1-RR, Clone: 240953C9) (blue), and PE-Conjugated Goat Anti-Rabbit IgG(H+L). Cells were not fixed.



Biolayer interferometry (BLI) kinetic assays of 98511-1-RR against Human DR4 were performed. The affinity constant is below 1 pM.