

Anti-Human DR4 Rabbit Recombinant Antibody, PBS Only

Catalog Number: 98511-1-PBS

Basic Information

Catalog Number: 98511-1-PBS	GenBank Accession Number: BC012866	Purification Method: Protein A purification
Concentration: 1mg, 3 mg/ml	GeneID (NCBI): 8797	CloneNo.: 250737E11
Source: Rabbit	UNIPROT ID: O00220	
Isotype: IgG	Full Name: tumor necrosis factor receptor superfamily, member 10a	
Immunogen Catalog Number: EG4600	Calculated MW: 50 kDa	

Applications

Tested Applications:
FC

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).

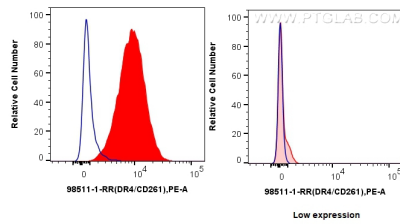
Storage

Storage:
Store at -80°C.

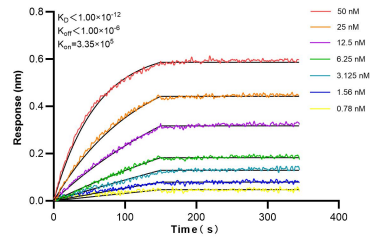
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:
PBS only, pH7.3

Selected Validation Data



1×10^6 HEL92.1.7 (left) or 1×10^6 PBMC cells (right) were surface stained with 0.15 μ g Anti-Human DR4 Rabbit RecAb (98511-1-RR, Clone: 250737E11) (red) or 0.15 μ g Rabbit IgG Isotype Control RecAb (98136-1-RR, Clone: 240953C9) (blue), and PE-Conjugated Goat Anti-Rabbit IgG(H+L). Cells were not fixed. This data was developed using the same antibody clone with 98511-1-PBS in a different storage buffer formulation.



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