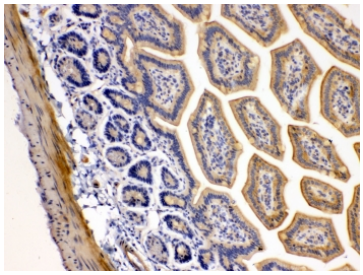
DR5 Antibody / TRAIL R2 (R32639)

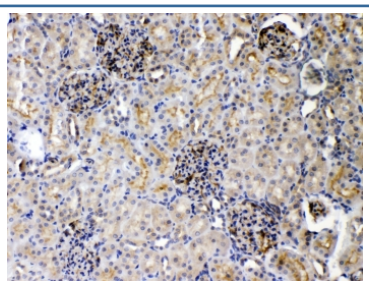
Catalog No.	Formulation	Size
R32639	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

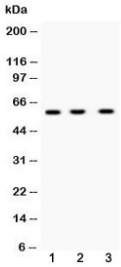
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA, 0.025% sodium azide
UniProt	O14763
Applications	Western Blot : 0.5-1ug/ml Immunohistochemistry (FFPE) : 1-2ug/ml Flow Cytometry : 1-3ug/million cells
Limitations	This DR5 antibody is available for research use only.



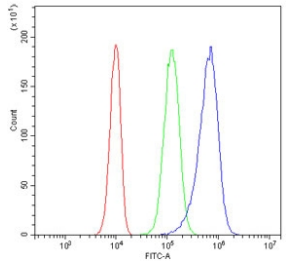
IHC testing of FFPE mouse intestine tissue with DR5 antibody at 1ug/ml. Required HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to testing.



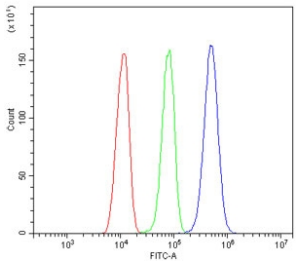
IHC testing of FFPE rat kidney tissue with DR5 antibody at 1ug/ml. Required HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to testing.



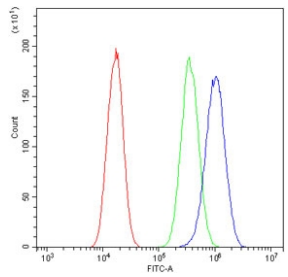
Western blot testing of 1) rat thymus, 2) mouse heart and 3) human K562 lysate with DR5 antibody at 0.5ug/ml. Predicted molecular weight ~48 kDa, often observed at ~60 kDa.



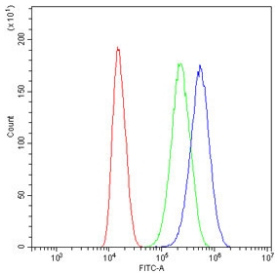
Flow cytometry testing of human PC-3 cells with DR5 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= DR5 antibody.



Flow cytometry testing of human ThP-1 cells with DR5 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= DR5 antibody.



Flow cytometry testing of human A549 cells with DR5 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= DR5 antibody.



Flow cytometry testing of human U-87 MG cells with DR5 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= DR5 antibody.

Description

TNFRSF10B (Tumor necrosis factor receptor superfamily, member 10b) is a human gene. It is also known as DR5 (Death Receptor 5), CD262, KILLER, TRICK2, TRICKB, ZTNFR9, TRAILR2, TRICK2A, TRICK2B, TRAIL-R2, KILLER/DR5. The protein encoded by this gene is a member of the TNF-receptor superfamily, and contains an intracellular death domain. This receptor can be activated by tumor necrosis factor-related apoptosis inducing ligand (TNFSF10/TRAIL/APO-2L), and transduces apoptosis signal. Mice have a homologous gene, tnfrsf10b that has been essential in the elucidation of the function of this gene in humans. Studies with FADD-deficient mice suggested that FADD, a death domain containing adaptor protein, is required for the apoptosis mediated by this protein.By analysis of radiation hybrid panels, this gene is mapped to chromosome 8p22-p21. Northern blot analysis indicated that TRAILR2 was expressed as a 4.4-kb mRNA in all

tissues tested, with the highest levels of expression in peripheral blood lymphocytes, spleen, and ovary.

Application Notes

Optimal dilution of the DR5 antibody should be determined by the researcher.

Immunogen

Amino acids K233-S440 from the human protein were used as the immunogen for the DR5 antibody.

Storage

After reconstitution, the DR5 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.