Datasheet: PHP125

Description:	RECOMBINANT HUMAN CD253
Name:	CD253
Other names:	TRAIL
Format:	Rec. Protein
Product Type:	Recombinant Protein
Quantity:	50 µg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
ELISA	▪			0.2 - 0.4ng/well
Western Blotting	▪			1.5 - 3.0ng/lane
Functional Assays	▪			0.2 - 20ng/ml

Where this protein has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the protein for use in their own system using appropriate positive/negative controls.

Target Species	Human
Species Cross Reactivity	Reacts with: Mouse **N.B.** Antibody reactivity and working conditions may vary between species.
Product Form	Purified recombinant protein - lyophilised
Reconstitution	Reconstitute with 0.5ml distilled water. For extended storage, the addition of 0.1% BSA is recommended. Care should be taken during reconstitution as the protein may appear as a film at the bottom of the vial. Bio-Rad recommend that the vial is gently mixed after reconstitution.
Preparation	Recombinant protein expressed in *E.coli*
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	None present
Endotoxin Level	<0.1ng/ug
Approx. Protein Concentrations	0.1mg/ml after reconstitution.

External Database Links	**UniProt:** P50591 Related reagents **Entrez Gene:** 8743 TNFSF10 Related reagents
Synonyms	APO2L, TRAIL
Product Information	**Recombinant human CD253** is a 19.6 kDa protein comprised of 168 amino acids which correspond to the TNF-homologous region of the extracellular domain of human TRAIL/ApoL2. TNF-related apoptosis-inducing ligand (TRAIL) is expressed in many tissues including spleen, lung and prostate (Wiley *et al*, 1995) and is capable of inducing apoptosis in a tumour specific manner (Walczak *et al*, 1997). Apoptosis is initiated by the binding of the two death receptors DR4 and DR5 which initiate cell death signalling via the caspase cascade. There are however two decoy receptors DcR1 and DcR2 which competitively bind to CD253 but do not initiate apoptosis (Allen and El-Deiry, 2012). A potential use for TRAIL as an anti-tumor therapeutic agent has been identified in numerous studies, demonstrating tumoricidal activity in approximately two thirds of tumor cell lines tested (Griffith *et al*, 1999). Recombinant human CD253 is the immunogen used to produce Rabbit anti human CD253 (AHP1215).
Protein Molecular Weight	19.6kD (169 amino acid sequence)
Purity	>98% by SDS PAGE and HPLC analysis
ELISA	Recombinant human CD253 may be used as a standard for ELISA applications with anti human CD253 (purified)
Western Blotting	Recombinant human CD253 may be used as the positive control for western blotting applications with anti human CD253 (purified)
References	1. Bumdelger, B. *et al.* (2016) Osteoprotegerin Prevents Development of Abdominal Aortic Aneurysms. PLoS One. 11 (1): e0147088. 2. Kamata, R. *et al.* (2016) EPA Prevents the Development of Abdominal Aortic Aneurysms through Gpr-120/Ffar-4. PLoS One. 11 (10): e0165132.
Storage	Prior to reconstitution store at +4ºC. Following reconstitution store at -20ºC. This product should be stored undiluted. Storage in frost-free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the protein. Should this product contain a precipitate we recommend microcentrifugation before use.
Shelf Life	3 months from date of reconstitution.
Health And Safety	Material Safety Datasheet documentation #10527 available at:

Information	10527: https://www.bio-rad-antibodies.com/uploads/MSDS/10527.pdf
Regulatory	For research purposes only

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