

Datasheet: AHP1215

Description:	RABBIT ANTI HUMAN CD253
Specificity:	CD253
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	0.1 mg

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
Flow Cytometry			■	
Immunohistology - Frozen			■	
Immunohistology - Paraffin (1)	■			0.25ug/ml
ELISA	■			0.5 - 2.0ug/ml
Immunoprecipitation			■	
Western Blotting	■			0.1 - 0.2ug/ml
Functional Assays	■			150ng/ml

Where this product 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 product for use in their own system using appropriate negative/positive controls.

(1) This product requires antigen retrieval using heat treatment prior to staining of paraffin sections. Sodium citrate buffer pH 6.0 is recommended for this purpose.

Target Species	Human
Product Form	Purified IgG - lyophilized
Reconstitution	<p>Reconstitute with 0.1ml distilled water</p> <p>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. For long term storage the addition of 0.09% sodium azide is recommended.</p> <p>N.B. For functional studies do not add sodium azide</p>

Antiserum Preparation Antisera to human CD253 were raised by repeated immunisations of rabbits with highly

purified antigen. Purified IgG prepared by affinity chromatography against immobilized antigen.

Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	None present
Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0mg/ml after reconstitution.
Immunogen	Recombinant human CD253 (PHP125)
External Database Links	UniProt: P50591 Related reagents Entrez Gene: 8743 TNFSF10 Related reagents
Synonyms	APO2L, TRAIL
RRID	AB_871973
Specificity	<p>Rabbit anti Human CD253 antibody recognizes human tumor necrosis factor ligand superfamily member 10 otherwise known as TRAIL, CD253 or Apo2L. CD253 is a 281 amino acid type II transmembrane glycoprotein and member of the tumour necrosis factor superfamily, which induces apoptosis in tumour and transformed cells, but not normal cells.</p> <p>Activation of apoptosis by CD253 occurs through binding to the death-signaling receptors DR4 (TRAILR1) and DR5 (TRAILR2), leading to formation of the death-inducing signaling complex (DISC) and the triggering of a proteolytic caspase cascade. There are however decoy receptors known as DcR1 (TRAILR3) and DcR2 (TRAILR4) which competitively bind to CD253 and are unable to initiate apoptosis.</p> <p>CD253 also plays a role in immune surveillance, acting as a mediator of monocyte, NK cell, dendritic cell and T cell anti-tumour and anti-viral cytotoxicity.</p>
Histology Positive Control Tissue	Metastatic carcinoma of lymph node from breast tissue
References	<ol style="list-style-type: none">1. Koyama, S. <i>et al.</i> (2002) Expression of TNF-related apoptosis-inducing ligand (TRAIL) and its receptors in gastric carcinoma and tumor-infiltrating lymphocytes: a possible mechanism of immune evasion of the tumor. J Cancer Res Clin Oncol. 128 (2): 73-9.2. Plasilova, M. <i>et al.</i> (2002) TRAIL (Apo2L) suppresses growth of primary human leukemia and myelodysplasia progenitors. Leukemia. 16 (1): 67-73.

3. Chi, H.C. *et al.* (2012) Thyroid hormone receptors promote metastasis of human hepatoma cells via regulation of TRAIL. [Cell Death Differ. 19 \(11\): 1802-14.](#)

Further Reading	1. Almasan, A. & Ashkenazi, A. (2003) Apo2L/TRAIL: apoptosis signaling, biology, and potential for cancer therapy. Cytokine Growth Factor Rev. 14 (3-4): 337-48.
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Storage	Prior to reconstitution store at -20°C. After reconstitution store at -20°C. This product should be stored undiluted. Storage in frost-free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
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Guarantee	12 months from date of despatch
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Health And Safety Information	Material Safety Datasheet documentation #10294 available at: https://www.bio-rad-antibodies.com/SDS/AHP1215 10294
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Regulatory	For research purposes only
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Related Products

Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...) [FITC](#)
Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)
Sheep Anti Rabbit IgG (STAR35...) [RPE](#)
Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)

Recommended Useful Reagents

[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025A\)](#)
[TidyBlot WESTERN BLOT DETECTION REAGENT:HRP \(STAR209P\)](#)

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com	Worldwide	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com
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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)

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