

Datasheet: AHP1215

BATCH NUMBER 120815

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 - lyophilised

Reconstitution

Reconstitute with 0.1ml distilled water

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.

N.B. For functional studies do not add sodium azide

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 **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.

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.

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.

Histology Positive Control Tissue Metastatic carcinoma of lymph node from breast tissue

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.](#)

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.

Guarantee	12 months from date of despatch
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Health And Safety Information	Material Safety Datasheet documentation #10162 available at: https://www.bio-rad-antibodies.com/SDS/AHP1215 10162
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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 \(STAR209P\)](#)

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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
'M372475:200706'

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