

Datasheet: AHP1127

Description:	RABBIT ANTI HUMAN CD167 (C-TERMINAL)
Specificity:	CD167 (C-TERMINAL)
Other names:	DDR1
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
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
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin (1)	▪			20 - 30ug/ml
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting			▪	
Functional Assays			▪	

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 - liquid
Antiserum Preparation	Antisera to CD167 were raised by repeated immunisations of rabbit with highly purified antigen. Purified IgG prepared by affinity chromatography.
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.1% Sodium Azide (NaN ₃)
Approx. Protein Concentrations	IgG concentration 1.0mg/ml
Immunogen	Synthetic peptide: C-terminal region of human CD167.

**External Database
Links**

UniProt:

[Q08345](#) [Related reagents](#)

Entrez Gene:

[780](#) DDR1 [Related reagents](#)

Synonyms

CAK, EDDR1, NEP, NTRK4, PTK3A, RTK6, TRKE

Specificity

Rabbit anti Human CD167 antibody detects an epitope within the C-terminal of human CD167, a Discoidin Domain Receptor (DDR) also known as DDR1. CD167, a receptor for collagen, is widely expressed in normal and transformed epithelial cells, and may regulate cell adhesion, proliferation and extracellular matrix remodelling.

CD167 is a ~125 kDa protein which is partially processed into a 62 kDa membrane-anchored beta-subunit and a 54 kDa soluble alpha-subunit. This process, also termed shedding, is significantly enhanced upon CD167 activation.

CD167 has been demonstrated to be a direct transcriptional target of the p53 tumour suppressor gene, and is significantly over-expressed in breast, ovarian, oesophageal, and paediatric brain tumours.

**Histology Positive
Control Tissue**

Decidual cells.

References

1. Vogel, W.F. *et al.* (2006) Sensing extracellular matrix: an update on discoidin domain receptor function. [Cell Signal. 18 \(8\): 1108-16.](#)
2. Valencia, K. *et al.* (2012) Inhibition of collagen receptor discoidin domain receptor-1 (DDR1) reduces cell survival, homing, and colonization in lung cancer bone metastasis. [Clin Cancer Res. 18 \(4\): 969-80.](#)

Storage

Store at +4°C or at -20°C if preferred.
Storage in frost-free freezers is not recommended.
This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life

18 months from date of despatch.

**Health And Safety
Information**

Material Safety Datasheet documentation #10303 available at:
10303: <https://www.bio-rad-antibodies.com/uploads/MSDS/10303.pdf>

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

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

Sheep Anti Rabbit IgG (2AB02...)

[Biotin](#)

Sheep Anti Rabbit IgG (STAR36...)

[DyLight@488](#), [DyLight@549](#), [DyLight@649](#),
[DyLight@680](#), [DyLight@800](#)

Recommended Useful Reagents

[HISTAR DETECTION SYSTEM \(STAR3000A\)](#)

[HISTAR DETECTION SYSTEM \(STAR3000B\)](#)

[HISTAR DETECTION SYSTEM \(STAR3000C\)](#)

North & South Tel: +1 800 265 7376

America 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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