

## Datasheet: AHP1127

<b>Description:</b>	RABBIT ANTI HUMAN CD167 (C-TERMINAL)
<b>Specificity:</b>	CD167 (C-TERMINAL)
<b>Other names:</b>	DDR1
<b>Format:</b>	Purified
<b>Product Type:</b>	Polyclonal Antibody
<b>Isotype:</b>	Polyclonal IgG
<b>Quantity:</b>	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](http://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.**

<b>Target Species</b>	Human
<b>Product Form</b>	Purified IgG - liquid
<b>Antiserum Preparation</b>	Antisera to CD167 were raised by repeated immunisations of rabbit with highly purified antigen. Purified IgG prepared by affinity chromatography.
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative</b>	0.1% Sodium Azide (NaN <sub>3</sub> )

**Stabilisers**

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**Approx. Protein Concentrations** IgG concentration 1.0mg/ml

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**Immunogen** Synthetic peptide: C-terminal region of human CD167.

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**External Database Links****UniProt:**

[Q08345](#)    [Related reagents](#)

**Entrez Gene:**

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

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

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**RRID** AB\_2091923

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**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.

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**Histology Positive Control Tissue**

Decidual cells.

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**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.](#)
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**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.

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**Guarantee**

12 months from date of despatch

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**Health And Safety**

Material Safety Datasheet documentation #10040 available at:

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**Information** 10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

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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](#)

Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)

Sheep Anti Rabbit IgG (STAR35...) [RPE](#)

Sheep Anti Rabbit IgG (STAR36...) [DyLight®488](#), [DyLight®680](#), [DyLight®800](#)

### Recommended Useful Reagents

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

**North & South** Tel: +1 800 265 7376

**America** Fax: +1 919 878 3751

Email: [antibody\\_sales\\_us@bio-rad.com](mailto:antibody_sales_us@bio-rad.com)

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Tel: +44 (0)1865 852 700

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