

Datasheet: AHP2174

**BATCH NUMBER 151370**

<b>Description:</b>	RABBIT ANTI HUMAN CD294 (N-TERMINAL)
<b>Specificity:</b>	CD294 (N-TERMINAL)
<b>Other names:</b>	Putative G-protein coupled receptor 44
<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	▪			5ug/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.

<b>Target Species</b>	Human
<b>Species Cross Reactivity</b>	Based on sequence similarity, is expected to react with: Mouse, Rat <b>N.B.</b> Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.
<b>Product Form</b>	Purified IgG - liquid

**Antiserum Preparation** Antisera to human CD294 were raised by repeated immunisation of rabbits with highly

purified antigen. Purified IgG prepared from whole serum by affinity chromatography.

<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.02% Sodium Azide (NaN <sub>3</sub> )
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0mg/ml
<b>Immunogen</b>	A synthetic peptide corresponding to an 18 amino acid sequence from near the amino terminus of human CD294 – KLH conjugated.
<b>External Database Links</b>	<b>UniProt:</b> <a href="#">Q9Y5Y4</a> <a href="#">Related reagents</a> <a href="#">Q9Z2J6</a> <a href="#">Related reagents</a>  <b>Entrez Gene:</b> <a href="#">11251</a> GPR44 <a href="#">Related reagents</a> <a href="#">14764</a> Gpr44 <a href="#">Related reagents</a>
<b>Synonyms</b>	Crth2, CRTH2, DL1R
<b>RRID</b>	AB_10709827
<b>Specificity</b>	<p><b>Rabbit anti Human CD294 antibody</b> recognizes CD294, also known as chemoattractant receptor homologous molecule expressed on Th2 cells (CRTH2) and GPR44. CD294 is a G protein-coupled receptor which has a high affinity for prostaglandin D2 (PGD2).</p> <p>CD294 is predominantly expressed on Th2 cells, basophils and eosinophils, and its activation by PDG2 mediates chemotaxis of these cells to inflammatory sites. CD294 may be a useful marker for Th2 cells, and enhances their function and signalling with a possible role in Th2 cell differentiation.</p> <p>PGD2 is thought to contribute to bronchoconstriction, eosinophilia and mucus production in allergic asthma, and CD294 may contribute to this disease.</p>
<b>Immunohistology</b>	<p>*This product does not require protein digestion pre-treatment of paraffin sections e.g. trypsin or pronase. This product requires antigen retrieval using heat treatment prior to staining of paraffin sections.</p> <p>Sodium citrate buffer pH 6.0 is recommended for this purpose.</p>
<b>Histology Positive Control Tissue</b>	Human adrenal gland
<b>Storage</b>	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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<b>Guarantee</b>	12 months from date of despatch
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<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10040 available at: <a href="https://www.bio-rad-antibodies.com/SDS/AHP2174">https://www.bio-rad-antibodies.com/SDS/AHP2174</a> 10040
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<b>Regulatory</b>	For research purposes only
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## Related Products

### Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...) [FITC](#)

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

### Recommended Useful Reagents

[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025A\)](#)

[TidyBlot WESTERN BLOT DETECTION REAGENT:HRP \(STAR209P\)](#)

**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)

**Worldwide**

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

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

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