

Datasheet: AHP2174

Description:	RABBIT ANTI HUMAN CD294 (N-TERMINAL)
Specificity:	CD294 (N-TERMINAL)
Other names:	Putative G-protein coupled receptor 44
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	▪			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.

Target Species	Human
Species Cross Reactivity	Based on sequence similarity, is expected to react with: Mouse, Rat N.B. Antibody reactivity and working conditions may vary between species.
Product Form	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.
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.02% Sodium Azide (NaN ₃)
Approx. Protein Concentrations	IgG concentration 1.0mg/ml
Immunogen	A synthetic peptide corresponding to an 18 amino acid sequence from near the amino terminus of

human CD294 – KLH conjugated.

External Database**Links****UniProt:**[Q9Y5Y4](#)[Related reagents](#)[Q9Z2J6](#)[Related reagents](#)**Entrez Gene:**[11251](#)

GPR44

[Related reagents](#)[14764](#)

Gpr44

[Related reagents](#)

Synonyms

Crth2, CRTH2, DL1R

Specificity

Rabbit anti Human CD294 antibody recognizes CD294, also known as chemoattractant receptor homologous molecule expressed on Th2 cells (CRTH2) and GRP44. CD294 is a G protein-coupled receptor which has a high affinity for prostaglandin D2 (PGD2).

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.

PGD2 is thought to contribute to bronchoconstriction, eosinophilia and mucus production in allergic asthma, and CD294 may contribute to this disease.

Immunohistology

*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.

Sodium citrate buffer pH 6.0 is recommended for this purpose.

Histology Positive Control Tissue

Human adrenal gland

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

12 months from date of despatch.

Health And Safety Information

Material Safety Datasheet documentation #10040 available at:

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

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...) [FITC](#)Sheep Anti Rabbit IgG (STAR35...) [RPE](#)

Sheep Anti Rabbit IgG (STAR54...) [HRP](#)

Recommended Useful Reagents

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

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

[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025C\)](#)

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

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