Datasheet: AHP1707

BATCH NUMBER 165068

Description:	RABBIT ANTI HUMAN CD234 (C-TERMINAL)
Specificity:	CD234 (C-TERMINAL)
Other names:	DARC
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
Immunohistology - Paraffin (1)	▪			2.5ug/ml
Western Blotting	▪			1.0 - 2.0ug/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

Species Cross Reactivity

Reacts with: Mouse, Rat

N.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.

Product Form

Purified IgG - liquid

Antiserum Preparation

Antisera to Human CD234 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 peptide corresponding to a 16 amino acid sequence from near the carboxy terminus of Human CD234.
External Database Links	**UniProt:** Q16570 Related reagents **Entrez Gene:** 2532 DARC Related reagents
Synonyms	FY, GPD
RRID	AB_2261348
Specificity	**Rabbit anti Human CD234 antibody** detects CD234, also known as DARC, a multi-pass membrane protein belonging to the G protein coupled Duffy family. CD234 is a non-specific receptor for a number of cytokines including IL-8, GRO, RANTES, MCP-1 and TARC. CD234 also functions as the receptor for the malaria parasites *Plasmodium vivax* and *P. knowlesi*. CD234 is also responsible for the Duffy blood group system where a substitution at position 42 of either Gly-42 or Asp-42 results in Fy(A) or Fy(B). CD234 is present in adult kidney, adult spleen, bone marrow and fetal liver. In particular, it is expressed along post capillary venules throughout the body, except in the adult liver. Erythroid cells and post capillary venule endothelium are the principle tissues expressing duffy. Fy(-A-B) individuals do not express duffy in the bone marrow, however they do, in postcapillary venule endothelium. It has been demonstrated that CD234 exists in multiple isoforms.
Histology Positive Control Tissue	Mouse brain tissue
Western Blotting	AHP1707 detects bands of approximately 23 and 36kDa in Mouse brain tissue lysate.
Further Reading	1. Gardner, L. *et al.* (2004) The human Duffy antigen binds selected inflammatory but not homeostatic chemokines. Biochem Biophys Res Commun. 321 (2): 306-12. 2. Chaudhuri A *et al.* (1993) Cloning of glycoprotein D cDNA, which encodes the major subunit of the Duffy blood group system and the receptor for the *Plasmodium vivax* malaria parasite. Proc Natl Acad Sci U S A. 90 (22): 10793-7. 3. Gil, M.L. *et al.* (1992) A member of the tetra spans transmembrane protein superfamily is recognized by a monoclonal antibody raised against an HLA class I-deficient, lymphokine-activated killer-susceptible, B lymphocyte line. Cloning and preliminary functional studies. J Immunol. 148 (9): 2826-33.

Storage	This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C. Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/AHP1707 10040
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR54...) 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
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