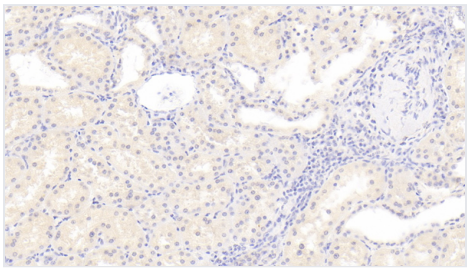
Rh Blood Group, D Antigen (RHD) Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	Rh Blood Group, D Antigen (RHD), Monoclonal Antibody
Full Product Name	Monoclonal Antibody to Rh Blood Group, D Antigen (RHD)
Product Gene Name	anti-RHD antibody
Product Synonym Names	RHD/Rh Blood Group, D Antigen; CD240D; Rh30a; Rh4; RhPI; RhII; DIIIc; Rhesus D antigen; Rh polypeptide 2
Clonality	Monoclonal
Isotype	IgG2b Kappa
Clone Number	C1
Host	Mouse
Species Reactivity	Human, Pig
Form/Format	Liquid; 0.01M PBS, pH7.4, containing 0.05% Proclin300, 50% glycerol.
Purity/Purification	Protein A + Protein G affinity chromatography
Concentration	1mg/mL (lot specific)
Specificity	The antibody is a mouse monoclonal antibody raised against RHD. It has been selected for its ability to recognize RHD in immunohistochemical staining and western blotting.
Preparation and Storage	Store at 2 degree C to 8 degree C for frequent use, 20 degree C for 24 months The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 degree C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Matching Pairs	Unconjugated Antibody: RHD Clone #C1 (MBS2139409) APC-CY7 Conjugated Antibody: RHD Clone #C1 (MBS2138093)
Matching Pairs	Unconjugated Antibody: RHD Clone #C1 (MBS2139409) PE Conjugated Antibody: RHD Clone #C1 (MBS2138096)
Matching Pairs	Unconjugated Antibody: RHD Clone #C1 (MBS2139409) APC Conjugated Antibody: RHD Clone #C1 (MBS2138099)
Matching Pairs	Unconjugated Antibody: RHD Clone #C1 (MBS2139409) Cy3 Conjugated Antibody: RHD Clone #C1 (MBS2138102)
Matching Pairs	Unconjugated Antibody: RHD Clone #C1 (MBS2139409) Biotin Conjugated Antibody: RHD Clone #C1 (MBS2138105)
Matching Pairs	Unconjugated Antibody: RHD Clone #C1 (MBS2139409) FITC Conjugated Antibody: RHD Clone #C1 (MBS2138108)
Matching Pairs	Unconjugated Antibody: RHD Clone #C1 (MBS2139409) HRP Conjugated Antibody: RHD Clone #C1 (MBS2138111)
Molecular Weight	41,694 Da
OMIM	X63097 mRNA
3D Structure	ModBase 3D Structure for Q02161
Supply Chain Verification	Manufactured in a lab with traceable raw materials. Bulk orders can typically be prepared to the customer's specifications, please inquire.

Immunogen Type	Prokaryotic Recombinant proteins/RP
Sequence of Immunogen	Ser2~Gly87
Conjugation	Unconjugated
Product Categories/Family for anti-RHD antibody	Hematology; Primary
ISO Certification	Manufactured in an ISO 9001:2015 and ISO 13485:2016 Certified Laboratory.
Applications Tested/Suitable for anti-RHD antibody	Western Blot (WB), Immunohistochemistry (IHC), Immunocytochemistry (ICC), Immunoprecipitation (IP)
Application Notes for anti-RHD antibody	WB: 0.52ug/mL IHC: 520ug/mL ICC: 520ug/mL
Related Product Information for anti-RHD antibody	MBS2139409 is an antibody targeting RHD. Also known as Monoclonal Antibody to Rh Blood Group, D Antigen (RHD). Reactive in Human, Pig. Host: Mouse.
Other Notes	Small volumes of anti-RHD antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Immunohistochemistry (IHC) of anti-RHD antibody
DAB staining on IHCP; Sample: Human Kidney Tissue; Primary Ab: 20ug/ml Mouse AntiHuman RHD Antibody Second Ab: 2ug/mL HRPLinked Caprine AntiMouse IgG Polyclonal Antibody (Catalog: SAA544Mu19)

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for RHD. It may not necessarily be applicable to this product.

NCBI GI #	189095266
NCBI GeneID	6007
NCBI Accession #	NP_001121163.1
UniProt Primary Accession #	Q02161
UniProt Secondary Accession #	Q02162; Q07618; Q16147; Q16235; Q16355; Q5VSK0; Q5XLS9; Q5XLT1; Q5XLT2; Q9NPK0; Q9UQ20
UniProt Related Accession #	Q02161
GenBank Nucleotide #	NM_001127691.2
NCBI Official Full Name	blood group Rh(D) polypeptide isoform 2
NCBI Official Synonym Full Names	Rh blood group D antigen
NCBI Official Symbol	RHD
NCBI Official Synonym Symbols	RH; Rh4; RH30; RhII; RhPI; DIIIc; RHCED; RHDel; RHPII; RhDCw; CD240D; RHXIII; RHDVA(TT); RhK562-II
UniProt Protein Name	Blood group Rh(D) polypeptide
UniProt Synonym Protein Names	RHXIII; Rh polypeptide 2; RhPII; Rhesus D antigen; CD_antigen: CD240D

UniProt Gene Name	RHD
UniProt Synonym Gene Names	RhPII
NCBI Protein Information	blood group Rh(D) polypeptide
NCBI Summary for RHD	The Rh blood group system is the second most clinically significant of the blood groups, second only to ABO. It is also the most polymorphic of the blood groups, with variations due to deletions, gene conversions, and missense mutations. The Rh blood group includes this gene, which encodes the RhD protein, and a second gene that encodes both the RhC and RhE antigens on a single polypeptide. The two genes, and a third unrelated gene, are found in a cluster on chromosome 1. The classification of Rh-positive and Rh-negative individuals is determined by the presence or absence of the highly immunogenic RhD protein on the surface of erythrocytes. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]
UniProt Comments for RHD	May be part of an oligomeric complex which is likely to have a transport or channel function in the erythrocyte membrane.
Research Articles on RHD	**1.** Six weak D types in the Russian Federation: the most common type 3 (49.2%) and type 1 (28.6%), type 2 (14.3), type 15 (4.8%), type 4.2 (DAR) (1.6%) and type 6 (1.6%).
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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