

CERTIFICATE OF ANALYSIS – TECHNICAL DATA SHEET

Product name	LRG, Human, clone 2F5.A2		
Catalog number	HM2013-20UG		
Lot number	-	Expiry date	-
Volume	200 µl	Amount	20 µg
Formulation	0.2 µm filtered in PBS+0.1%BSA+0.02%NaN3	Concentration	100 µg/ml
Host Species	Mouse IgG1	Conjugate	None
Endotoxin	N.A.	Purification	Protein G
Storage	4°C		

Application notes

	IHC-F	IHC-P	IF	FC	FS	IA	IP	W
Reference #						1,2		
Yes						•		
No								
N.D.	•	•	•	•	•		•	•

N.D.= Not Determined; IHC = Immuno histochemistry; F = Frozen sections; P = Paraffin sections; IF = Immuno Fluorescence; FC = Flow Cytometry; FS = Functional Studies; IA = Immuno Assays; IP = Immuno Precipitation; W = Western blot

Dilutions to be used depend on detection system applied. It is recommended that users test the reagent and determine their own optimal dilutions. The typical starting working dilution is 1:50.

- IA: Antibody was used as detector for LRG on cytochrome C coated plates. Concentration antibody used was 1 µg/ml.

General Information

Description	The monoclonal antibody recognizes leucine-rich alpha-2-glycoprotein (LRG), a member of the leucine-rich repeat family. LRG is a plasma protein of approximately 50 kDa. LRG consists of 312 amino acids. It has 1 galactosamine and 4 glucosamine oligosaccharides attached and has 2 intrachain disulfide bonds. Leucine comprises 66 of the 312 amino acids, and LRG contains at least eight 24-amino acid leucine-rich repeats. The consensus of these residues, termed leucine-rich repeats (LRR), has been identified as an LRR-containing domain. The primary function of LRRs is to provide versatile structural framework of the formation of protein-protein interactions. LRG is expressed during granulocyte differentiation. Although several family members of the leucine-rich repeat family have been shown to be involved in signal transduction, protein-protein interaction, or cell adhesion and development, a function for LRG remains elusive. LRG has been reported as a biomarker for certain diseases including microbial infections and cancer. LRG can be detected in human neutrophils and progenitor cells, but not in peripheral blood mononuclear cells. The monoclonal antibody 2F5.A2 can be used for immuno purification of human LRG.
Immunogen	Human LRG, covalently coupled to hemocyanin using glutaraldehyde
Aliases	Leucine-rich alpha-2-glycoprotein, LRG
References	<ol style="list-style-type: none"> Weivoda, S et al; ELISA for human serum leucine-rich alpha-2-glycoprotein-1 employing cytochrome c as the capturing ligand. J Immunol Meth 2008, 336: 22 Codina, R et al; Cytochrome c-induced lymphocyte death from the outside in: inhibition by serum leucine-rich alpha-2-glycoprotein-1. Apoptosis 2010, 15: 139
Storage&stability	Product should be stored at 4°C. Under recommended storage conditions, product is stable for at least one year.
Precautions	For research use only. Not for use in or on humans or animals or for diagnostics. It is the responsibility of the user to comply with all local/state and federal rules in the use of this product. Hycult Biotech is not responsible for any patent infringements that might result from the use or derivation of this product.

We hereby certify that the above-stated information is correct and that this product has been successfully tested by the Quality Control Department. This product was released for sale according to the existing specifications. This document has been produced electronically and is valid without a signature.

Approved by Manager of QC
Brenda Teunissen

Date
16/11/2020

Do you have any questions or comments regarding this product? Please contact us via support@hycultbiotech.com.