



Order Information

Description:	Ms anti-CD51
Catalogue#:	603-790
Lot#:	See the label
Size:	100 ug/200 ul
Host:	Mouse
Clone:	HCD51
Isotyping:	IgG1 κ
Application:	ELISA, IP, IHC(P), FC
Reactivity:	Hu

Mouse anti-CD 51 Monoclonal Antibody

Synonym: human CD51; Vitronectin receptor α chain, Integrin αV, αV integrin

ANTIGEN PREPARATION

Mice were immunized with culture human melanoma cells.

BACKGROUND

CD51 is a type I integral membrane glycoprotein, known as vitronectin receptor α chain, or integrin α_v. It forms heterodimer with integrin β1 (CD29), β3 (CD61), β5, β6, or β8. CD51 contains two disulfide-linked subunits of 125 kDa and 24 kDa, and is expressed on endothelial cells, fibroblasts, macrophages, platelets, osteoclasts, neuroblastoma, melanoma, and hepatoma cells. Many extracellular matrix proteins with RGD-motifs are CD51 ligands. In association with its β chains, CD51 binds vitronectin, von Willebrand factor, fibronectin, thrombospondin, osteopontin, fibrinogen, and laminin. CD51, as an adhesion molecule, plays important roles in leukocytes homing and rolling, mediates bone absorption and angiogenesis.

PURIFICATION

The Mouse IgG is purified by Isotyping-specific Affinity Purification.

FORMULATION

This affinity purified antibody is supplied in sterile Phosphate-buffered saline (pH7.2) containing antibody stabilizer

SPECIFICITY

This antibody recognizes human CD51 protein. The other species was not tested.

STORAGE

The antibodies are stable for 12 months from date of receipt when stored at -20°C to -70°C. The antibodies can be stored at 2°C-8°C for three month without detectable loss of activity. Avoid repeated freezing-thawing cycles.

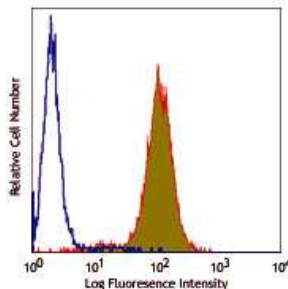
APPLICATIONS/SUGGESTED WORKING DILUTIONS

Western Blot	0.1-1 µg/ml
ELISA	0.01-0.1 µg/ml
Immunoprecipitation	2-5 µg/ml
IHC	2-5 µg/ml
Flow cytometry	5-10 µg/ml

MOLECULAR WEIGHT:	~25kDa, 125kDa (Reduced) 150 kDa (non-reduced)
POSITIVE CONTROL:	Human melanoma
CELLULAR LOCATION:	Membrane/Cytoplasmic

Optimal dilutions should be determined by researchers for the specific applications.

DATA ATTACHMENTS



Flowcytometry: Human melanoma (total viable cell number is 1x10⁶/100 µl) were stained by 5 µg of Ms anti-CD51 (Cat# 603-790) at RT for 30 min followed by FITC conjugated Goat anti Mouse IgG.

REFERENCES

R. A. Smith¹ and T. D. Giorgio. Quantitation and Kinetics of CD51 Surface Receptor Expression: Implications for Targeted Delivery. Annals of Biomedical Engineering. 32(5): 635-644, 2004.

FOR RESEARCH USE ONLY.



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