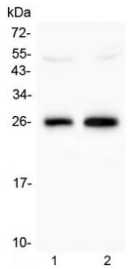
MOG Antibody / Myelin Oligodendrocyte Glycoprotein (RQ4651)

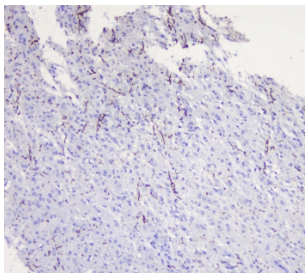
Catalog No.	Formulation	Size
RQ4651	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

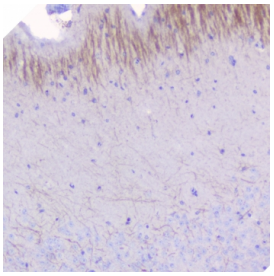
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	Q16653
Localization	Plasma membrane
Applications	Western blot: 0.5-1ug/ml Immunohistochemistry (FFPE): 1-2ug/ml Flow cytometry: 1-3ug/million cells
Limitations	This MOG antibody is available for research use only.



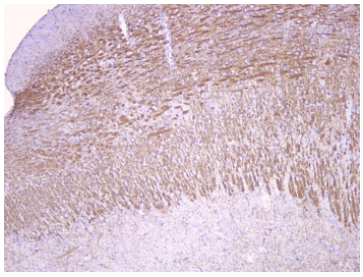
Western blot testing of 1) rat brain and 2) mouse brain lysate with MOG antibody at 0.5ug/ml. Expected molecular weight: 15-28 kDa depending on glycosylation level.



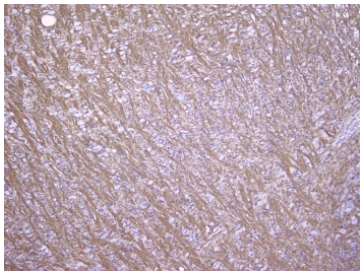
IHC staining of FFPE human glioma with MOG antibody at 1ug/ml. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min followed by cooling at RT for 20 min.



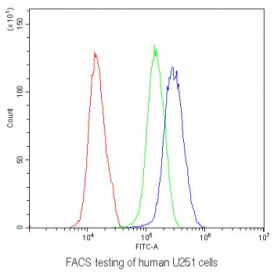
IHC staining of FFPE mouse brain with MOG antibody at 1ug/ml. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min followed by cooling at RT for 20 min.



IHC staining of FFPE rat brain with MOG antibody at 1ug/ml. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min followed by cooling at RT for 20 min.



IHC staining of FFPE rat brain with MOG antibody at 1ug/ml. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min followed by cooling at RT for 20 min.



FACS testing of human U251 cells

Flow cytometry testing of human U251 cells with MOG antibody at 1ug/10^6 cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= MOG antibody.

Description

Myelin oligodendrocyte glycoprotein (MOG) is a glycoprotein believed to be important in the myelination of nerves in the central nervous system (CNS). In humans this protein is encoded by the MOG gene. This gene is mapped to 6p22.1. It is speculated to serve as a necessary adhesion molecule to provide structural integrity to the myelin sheath and is known to develop late on the oligodendrocyte. The product of this gene is a membrane protein expressed on the oligodendrocyte cell surface and the outermost surface of myelin sheaths. Due to this localization, it is a primary target antigen involved in immune-mediated demyelination. This protein may be involved in completion and maintenance of the myelin sheath and in cell-cell communication. Alternatively spliced transcript variants encoding different isoforms have been identified.

Application Notes

Optimal dilution of the MOG antibody should be determined by the researcher.

Immunogen

Amino acids RVVHLYRNGKDQDGDQAPEYRGRTELLKDAIGEGK were used as the immunogen for the MOG antibody.

Storage

After reconstitution, the MOG antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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