

MOG (E5K6T) XP[®] Rabbit mAb

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, W-S, IHC-P	H M R	Endogenous	46, 35, 28, 23	Rabbit IgG	#Q16653	4340

Product Usage Information**Application**

Western Blotting
Simple Western™
Immunohistochemistry (Paraffin)

Dilution

1:1000
1:50 - 1:250
1:100

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

For a carrier free (BSA and azide free) version of this product see product #85715.

Specificity/Sensitivity

MOG (E5K6T) Rabbit mAb recognizes endogenous levels of total MOG protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with recombinant protein specific to the extracellular membrane proximal amino terminus of human MOG protein.

Background

Myelin-oligodendrocyte glycoprotein (MOG) is a type I membrane bound glycoprotein of the immunoglobulin superfamily that is enriched in the outer lamella of the myelin sheath (1). The myelin sheath is a multi-layered membrane structure composed of oligodendrocytes that increases the conduction velocity of axonal impulses. The specific function of MOG is unknown, but MOG's structure and expression during later stages of myelinogenesis suggests a role in myelin sheath maturation and maintenance (2). MOG may be an autoimmune target in central nervous system inflammatory diseases such as multiple sclerosis (MS) (3). Induction of MOG autoimmunity is also used as an experimental model for MS as injections of MOG peptide or recombinant protein in rodent models causes severe neurological disease that recapitulates several clinical features of MS (4).

Background References

1. Johns, T.G. and Bernard, C.C. (1999) *J Neurochem* 72, 1-9.
2. Clements, C.S. et al. (2003) *Proc Natl Acad Sci U S A* 100, 11059-64.
3. Androutsou, M.E. et al. (2018) *Med Chem* 14, 120-8.
4. Linington, C. et al. (1993) *Eur J Immunol* 23, 1364-72.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting **W-S:** Simple Western™ **IHC-P:** Immunohistochemistry (Paraffin)

Cross-Reactivity Key

H: Human **M:** Mouse **R:** Rat

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