

Olig2 (E6G6Q) XP® Rabbit mAb

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, W-S, IP, IHC-P, IF-F, IF-IC	H M R	Endogenous	35	Rabbit IgG	#Q13516	10215

Product Usage Information**Application**

Western Blotting
Simple Western™
Immunoprecipitation
Immunohistochemistry (Paraffin)
Immunofluorescence (Frozen)
Immunofluorescence (Immunocytochemistry)

Dilution

1:1000
1:50 - 1:250
1:50
1:50 - 1:200
1:100 - 1:400
1:200 - 1:800

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 #71735.

Specificity/Sensitivity

Olig2 (E6G6Q) XP® Rabbit mAb recognizes endogenous levels of total Olig2 protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with recombinant protein specific to the carboxy terminus of human Olig2 protein.

Background

Olig2 is a basic helix-loop-helix (bHLH) transcription factor necessary for oligodendrocyte and motor neuron differentiation and development in the central nervous system (1,2). Olig2 has been shown to play a role in Purkinje cell specification in the early cerebellum (3). Olig2 has also been shown to be a useful marker for primary and mature oligodendrocytes and is universally expressed in diffuse gliomas (4,5).

Background References

1. Zhou, Q. et al. (2000) *Neuron* 25, 331-43.
2. Takebayashi, H. et al. (2002) *Curr Biol* 12, 1157-63.
3. Ju, J. et al. (2016) *Sci Rep* 6, 30711.
4. Ligon, K.L. et al. (2004) *J Neuropathol Exp Neurol* 63, 499-509.
5. Yokoo, H. et al. (2004) *Am J Pathol* 164, 1717-25.

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™ **IP:** Immunoprecipitation **IHC-P:** Immunohistochemistry (Paraffin) **IF-F:** Immunofluorescence (Frozen) **IF-IC:** Immunofluorescence (Immunocytochemistry)

Cross-Reactivity Key

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

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