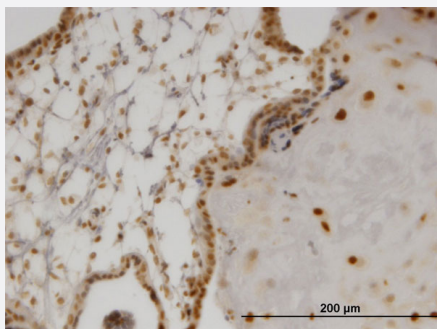


# OLIG2 monoclonal antibody (M03), clone 3C9

Catalog # H00010215-M03

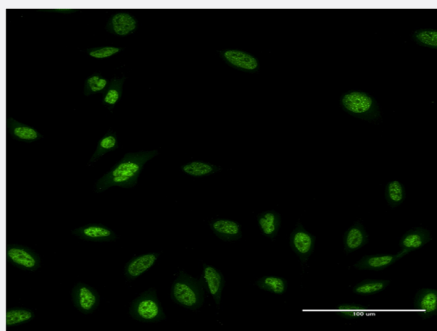
Size 100 ug

## Applications



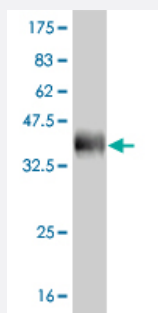
### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunoperoxidase of monoclonal antibody to OLIG2 on formalin-fixed paraffin-embedded human placenta. [antibody concentration 3 ug/ml]



### Immunofluorescence

Immunofluorescence of monoclonal antibody to OLIG2 on HeLa cell . [antibody concentration 10 ug/ml]



Western Blot detection against Immunogen (34.47 KDa) .

## Specification

### Product Description

Mouse monoclonal antibody raised against a full length recombinant OLIG2.

|                               |                                                                                                                     |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------|
| Immunogen                     | OLIG2 (NP_005797, 2 a.a. ~ 78 a.a) full length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa. |
| Sequence                      | DSDASLVSSRPSSPEPDDLFLPARSKGSSGSAFTGGTVSSSTPSDCPPELSAELRGAMGSAGA<br>HPGDKLGGSGFKSS                                   |
| Host                          | Mouse                                                                                                               |
| Reactivity                    | Human                                                                                                               |
| Interspecies Antigen Sequence | Mouse (95); Rat (95)                                                                                                |
| Isotype                       | IgG2a Kappa                                                                                                         |
| Quality Control Testing       | Antibody Reactive Against Recombinant Protein.<br>Western Blot detection against Immunogen (34.47 KDa) .            |
| Storage Buffer                | In 1x PBS, pH 7.4                                                                                                   |
| Storage Instruction           | Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.                                            |

## Applications

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunoperoxidase of monoclonal antibody to OLIG2 on formalin-fixed paraffin-embedded human placenta. [antibody concentration 3 ug/ml]

[Protocol Download](#)

- ELISA

- Immunofluorescence

Immunofluorescence of monoclonal antibody to OLIG2 on HeLa cell . [antibody concentration 10 ug/ml]

## Gene Info — OLIG2

Entrez GeneID [10215](#)

GeneBank Accession# [NM\\_005806](#)

|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Protein Accession# | <a href="#">NP_005797</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Gene Name          | OLIG2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Gene Alias         | BHLHB1, OLIGO2, PRKCBP2, RACK17, bHLHe19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Gene Description   | oligodendrocyte lineage transcription factor 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Omim ID            | <a href="#">606386</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Gene Ontology      | <a href="#">Hyperlink</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Gene Summary       | This gene encodes a basic helix-loop-helix transcription factor which is expressed in oligodendroglial tumors of the brain. The protein is an essential regulator of ventral neuroectodermal progenitor cell fate. The gene is involved in a chromosomal translocation t(14;21)(q11.2;q22) associated with T-cell acute lymphoblastic leukemia. Its chromosomal location is within a region of chromosome 21 which has been suggested to play a role in learning deficits associated with Down syndrome. [provided by RefSeq] |
| Other Designations | OTTHUMP00000067569 OTTHUMP00000067570 basic domain, helix-loop-helix protein, class B, 1 human protein kinase C-binding protein RACK17 oligodendrocyte-specific bHLH transcription factor 2 protein kinase C binding protein 2                                                                                                                                                                                                                                                                                                |

## Publication Reference

- [Human Cytomegalovirus Tegument Protein pp65 Is Detected in All Intra- and Extra-Axial Brain Tumours Independent of the Tumour Type or Grade.](#)

Libard S, Popova SN, Amini RM, Karja V, Pietilainen T, Hamalainen KM, Sundstrom C, Hesselager G, Bergqvist M, Ekman S, Zetterling M, Smits A, Nilsson P, Pfeifer S, de Stahl TD, Enblad G, Ponten F, Alafuzoff I.

PLoS One 2014 Sep; 9(9):e108861.

Application: IHC, Human, Brain tumours

## Disease

- [Alzheimer disease](#)
- [Genetic Predisposition to Disease](#)
- [Obsessive-Compulsive Disorder](#)
- [Psychotic Disorders](#)
- [Schizophrenia](#)
- [Tourette Syndrome](#)