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Datasheet for ABIN6145015
anti-OLIG2 antibody (AA 1-80)

3 Images

Overview

Quantity:	100 µL
Target:	OLIG2
Binding Specificity:	AA 1-80
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This OLIG2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 1-80 of human Olig2 (NP_005797.1).
Sequence:	MDSASLVSS RPSSPEPDDL FLPARSKGSS GSAFTGGTVS SSTPSDCPPE LSAELRGAMG SAGAHPGDKL GGSGFKSSSS
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Polyclonal Antibodies

Target Details

Target:	OLIG2
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Target Details

Alternative Name: OLIG2 ([OLIG2 Products](#))

Background: 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.,OLIG2,BHLHB1,OLIGO2,PRKCBP2,RACK17,bHLHe19,Epigenetics & Nuclear Signaling,Transcription Factors,Neuroscience,Cell Type Marker,Stem Cells,Neural Stem Cells,Oligodendrocyte marker,OLIG2

Molecular Weight: 32 kDa

Gene ID: 10215

UniProt: [Q13516](#)

Application Details

Application Notes: WB,1:500 - 1:2000,IHC,1:50 - 1:100

Restrictions: For Research Use only

Handling

Format: Liquid

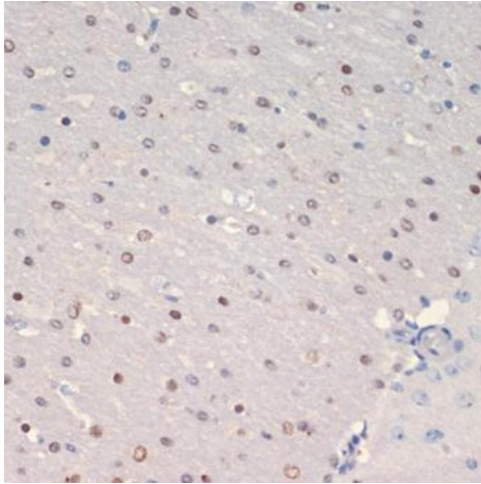
Buffer: PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

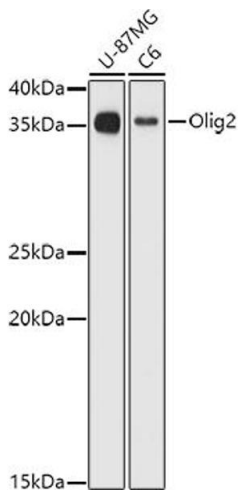
Storage: -20 °C

Storage Comment: Store at -20°C. Avoid freeze / thaw cycles.



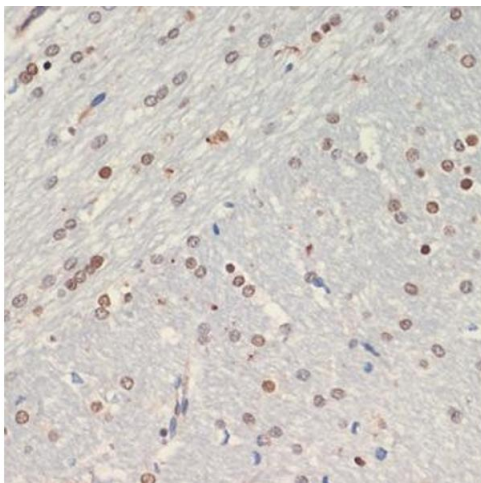
Immunohistochemistry

Image 1. Immunohistochemistry of paraffin-embedded mouse brain using Olig2 antibody (ABIN6128396, ABIN6145015, ABIN6145016 and ABIN6216575) at dilution of 1:200 (40x lens). Perform microwave antigen retrieval with 10 mM PBS buffer pH 7.2 before commencing with IHC staining protocol.



Western Blotting

Image 2. Western blot analysis of extracts of various cell lines, using Olig2 antibody (ABIN6128396, ABIN6145015, ABIN6145016 and ABIN6216575) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3 % nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 5s.



Immunohistochemistry

Image 3. Immunohistochemistry of paraffin-embedded rat brain using Olig2 antibody (ABIN6128396, ABIN6145015, ABIN6145016 and ABIN6216575) at dilution of 1:200 (40x lens). Perform microwave antigen retrieval with 10 mM PBS buffer pH 7.2 before commencing with IHC staining protocol.