Anti-OLIG2 Antibody

Catalog Number: *A02247-2*

BOSTER
antibody and ELISA experts
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Basic Information

Product Name	Anti-OLIG2 Antibody
Gene Name	OLIG2
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	mouse, rat
Tested Application	WB
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human OLIG2, which shares 95% amino acid (aa) sequence identity with mouse OLIG2.
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	32 kDa/40 kDa
Dilution Ratios	Western blot (WB):1:500-2000

Storage

12 months from date of receipt，-20℃ as supplied.

Background Information

Oligodendrocyte transcription factor (OLIG2) is a basic helix-loop-helix (bHLH) transcription factor encoded by the Olig2 gene. 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

Selected Validation Data

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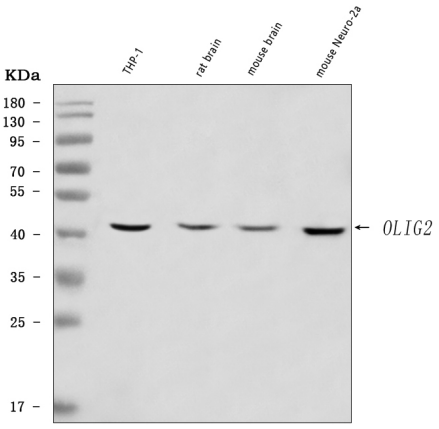

Western blot analysis of OLIG2 using anti-OLIG2 antibody (A02247-2). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: THP-1 whole cell lysates,
Lane 2: rat brain tissue lysates,
Lane 3: mouse brain tissue lysates,
Lane 4: mouse Neuro-2a whole cell lysates.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-OLIG2 antigen affinity purified polyclonal antibody (A02247-2) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for OLIG2 at approximately 32 kDa/40 kDa. The expected band size for OLIG2 is at 32 kDa.