

Rabbit anti-Human Olig1 Polyclonal Antibody | anti-OLIG1 antibody

Anti-Olig1 Antibody, Rabbit Polyclonal

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA254282	Rabbit	Human	Immunoprecipitation, Immunofluorescence, Immunocytochemistry, Western Blot

PRODUCT SYNONYMS

Olig1; Polyclonal Antibody; Anti-Olig1 Antibody; Rabbit Polyclonal; OLIG1 Antibody; Rabbit PAb; Antigen Affinity Purified; oligodendrocyte transcription factor 1; Anti-BHLHB6 Antibody; Anti-BHLHE21 Antibody; anti-OLIG1 antibody

PRODUCT SPECIFICATIONS

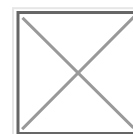
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human OLIG1
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-OLIG1 antibody	IP (Immunoprecipitation), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	A synthetic peptide corresponding to the center region of the human OLIG1
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with a synthetic peptide corresponding to the center region of the human OLIG1, and purified by antigen affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.

IMAGES



WB (Western Blot)

Anti-OLIG1 rabbit polyclonal antibody at 1:500 dilution Lane A: 293T Whole Cell Lysate Lysates/proteins at 30 ug per lane. Secondary Goat Anti-Rabbit IgG H&L (Dylight 800) at 1/10000 dilution. Developed using the Odyssey technique. Performed under reducing conditions. Predicted band size: 27 kDa Observed band size: 35 kDa



IP (Immunoprecipitation)

OLIG1 was immunoprecipitated using: Lane A: 0.5 mg HeLa Whole Cell Lysate 0.5 uL anti-OLIG1 rabbit polyclonal antibody and 15 ul of 50 % Protein G agarose. Primary antibody: Anti-OLIG1 rabbit polyclonal antibody, at 1:500 dilution Secondary antibody: Dylight 800-labeled antibody to rabbit IgG (H+L), at 1:5000 dilution Developed using the Odyssey technique. Performed under reducing conditions. Predicted band size: 20 kDa Observed band size: 20 kDa



IF (Immunofluorescence)

Immunofluorescence staining of OLIG1 in SHSY5Y cells. Cells were fixed with 4% PFA, permeabilized with 0.3% Triton X-100 in PBS, blocked with 10% serum, and incubated with rabbit anti-human OLIG1 polyclonal antibody (1:5000) at 4 degree C overnight. Then cells were stained with the Alexa Fluor594-conjugated Goat Anti-rabbit IgG secondary antibody (red). Positive staining was localized to nucleus.

ADDITIONAL INFORMATION

Related Product Information for anti-OLIG1 antibody	OLIG1 is an oligodendrocyte (OL) transcription factor, which can contribute to the proliferation and differentiation of OLs, and the maturation of myelin. OLIG1 and OLIG2 are basic-helix-loop-helix (bHLH) transcription factors expressed in the pMN domain of the spinal cord, which sequentially generates motoneurons and oligodendrocytes. Multivariate analyses of our data confirmed that OLIG1 protein expression significantly correlates with overall survival in NSCLC patients, with a relative risk of 0.84 (95% confidence interval 0.77-0.91, p <0.001) along with T and N stages, as indicated by a Cox proportional hazard model. So OLIG1 protein expression could be utilized as a novel prognostic factor, which could aid in deciding which NSCLC patients might benefit from more aggressive therapy.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	237757328
NCBI GeneID	116448
NCBI Accession #	NP_620450
NCBI GenBank Nucleotide #	NM_138983.2
UniProt Accession #	Q8TAK6; Q7RTS0
Molecular Weight	Predicted: 30 kDa Observed: 29 kDa
NCBI Official Full Name	oligodendrocyte transcription factor 1
NCBI Official Synonym Full Names	oligodendrocyte transcription factor 1
NCBI Official Symbol	OLIG1
NCBI Official Synonym Symbols	BHLHB6; BHLHE21
NCBI Protein Information	oligodendrocyte transcription factor 1; oligo1; class B basic helix-loop-helix protein 6; class E basic helix-loop-helix protein 21; oligodendrocyte lineage transcription factor 1; basic domain, helix-loop-helix protein, class B, 6; oligodendrocyte-specif
UniProt Protein Name	Oligodendrocyte transcription factor 1
UniProt Gene Name	OLIG1
UniProt Synonym Gene Names	BHLHB6; BHLHE21; Oligo1; bHLHb6; bHLHe21
UniProt Entry Name	OLIG1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.