

Datasheet for 200-401-E02**Olig1 Antibody****Overview**

Description:	Anti-Olig1 (RABBIT) Antibody - 200-401-E02
Item No.:	200-401-E02
Size:	100 µL
Applications:	IHC, IP, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	Olig1 antibody detects Olig1 protein. Olig genes have been identified as the earliest known markers of oligodendrocyte lineage determination to date. Olig1 is a transcription factor which promotes formation and maturation of oligodendrocytes, especially within the brain. It is expressed in the ventral spinal cord as early as 9.5 dpc and by 15.5 dpc, olig1 is dispersed throughout the gray matter. In the postnatal brain, it is present preferentially in the white matter, such as corpus callosum and cerebellar medulla. Olig1 has been demonstrated as necessary in the repair of brain lesions in patients with multiple sclerosis. Anti-Olig1 Antibody is ideal for investigators involved in Neuroscience, Transcription Factor, and Cancer research.
Synonyms:	Oligodendrocyte transcription factor 1, Oligodendrocyte-specific bHLH transcription factor 1, Oligo1
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	Olig1
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Recombinant Protein
Immunogen:	Anti-Olig1 Antibody was produced by repeated immunizations with recombinant mouse Olig1.

Purity/Specificity: Anti-Olig1 antibody is directed against mouse Olig1 protein. The antibody was Protein A purified. Cross reactivity with Olig1 from other species has not been determined.

Relevant Links:

- [NCBI - NP_058664.2](#)
- [GeneID - 50914](#)
- [UniProtKB - Q9JKN5.2](#)

Application Details

Tested Applications: IHC, IP, WB

Application Note: Anti-Olig1 Antibody is tested for use in Western Blotting, Immunoprecipitation, immunohistochemistry, and immunocytochemistry. Specific conditions for reactivity should be optimized by the end user. Expect a band or approximately 27 kDa in size corresponding to Olig1 proteins in Western blots in the appropriate cell lysate or extract.

Assay Dilutions: All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

IHC: 1:1000

IP: 1:50

WB: 1:3000

Formulation

Physical State: Liquid

Concentration: Titrated value sufficient to run approximately 10 mini blots.

Buffer: 0.02 M Tris Chloride, 0.01 M Glycine, pH 8.0

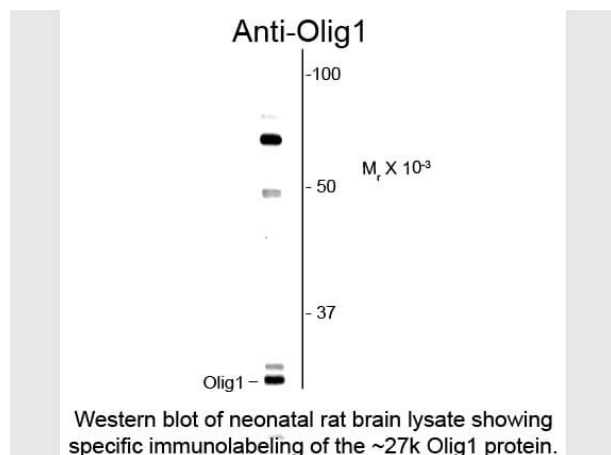
Shipping & Handling

Shipping Condition: Dry Ice

Storage Condition: Store vial at -20° C prior to opening. This product is stable at 4° C as an undiluted liquid. For extended storage, aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Dilute only prior to immediate use.

Expiration: Expiration date is one (1) year from date of receipt.

Images



Western Blot

Western Blot of Rabbit anti-Olig1 antibody. Lane 1: Neonatal Rat Brain Lysate. Lane 2: None. Load: 10 µg per lane. Primary antibody: Olig1 antibody at 1:3,000 for overnight at 4°C. Secondary antibody: IRDye800™ rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 27 kDa for Olig1. Other band(s): Olig1 splice variants and isoforms.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.