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Datasheet for 200-401-E03

Olig2 Antibody

Overview

Description:	Anti-Olig2 (RABBIT) Antibody - 200-401-E03
Item No.:	200-401-E03
Size:	100 µL
Applications:	IHC, IP, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	Olig2 Antibody detects Olig2 protein. Olig2 is a transcription factor which is required for oligodendrocyte and motor neuron specification in the spinal cord, as well as for the development of somatic motor neurons in the hindbrain. Expressed in the ventral spinal cord as early as 9.5 dpc and scattered in the mantle zone, likely corresponding to oligodendrocyte progenitors migrating out from their site of origin. From 10.5 through 14.5 dpc, Olig2 is expressed in numerous cells in the ventricular and subventricular zones of the lateral and medial ganglionic eminences, suggesting that expression might not be limited to the oligodendrocytic lineage. Olig2 has further been shown to be critical in the proliferation of malignant glioma in brain tumors. Anti-Olig2 Antibody is ideal for investigators involved in Neuroscience, Transcription Factor, and Cancer research.
Synonyms:	Oligodendrocyte transcription factor 2, Oligo2
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	Olig2
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Recombinant Protein

Immunogen:	Anti-Olig2 Antibody was produced by repeated immunizations with recombinant mouse Olig2 protein.
Purity/Specificity:	Anti-Olig2 antibody is directed against mouse Olig2 protein. The antibody is Protein A purified. Reactivity is expected against human and rat. Cross reactivity with Olig2 from other species has not been determined.
Relevant Links:	• NCBI - NP_058663.2 • GeneID - 50913 • UniProtKB - Q9EQW6.1

Application Details

Tested Applications:	IHC, IP, WB
Application Note:	Anti-Olig2 Antibody is tested for use in Western Blotting, Immunoprecipitation, and immunocytochemistry. Expect a band of approximately 27 kDa in size corresponding to Olig2 proteins in Western blots in the appropriate cell lysate or extracts.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
IHC:	1:1000
IP:	1:500-1000
WB:	1:3000

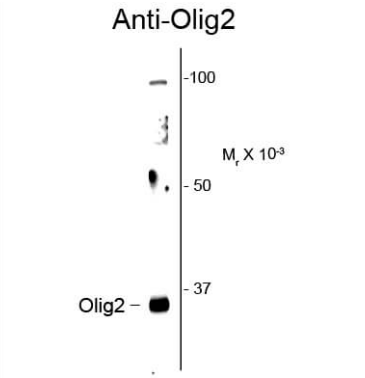
Formulation

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 of neonatal rat brain lysate showing specific immunolabeling of the ~32k Olig2 protein.

Western Blot

Western Blot of Rabbit anti-Olig2 antibody. Lane 1: Neonatal Rat Brain Lysate. Lane 2: None. Load: 10 µg per lane. Primary antibody: Olig2 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: 32 kDa for Olig2. Other band(s): Olig2 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.