

Purified anti-SOX2 (NH2 terminus) Antibody

Catalog# / Size	630801 / 50 µL 630802 / 200 µL
Clone	Poly6308
Regulatory Status	RUO
Other Names	SRY (sex determining region Y)-box 2, ANOP3, SOX-2
Isotype	Rabbit Polyclonal IgG
Description	This rabbit polyclonal antibody recognizes human SOX2 also known as SRY (sex determining region Y)-box 2 and ANOP3. SOX2 is a nucleus protein, predicted molecular weight 34 kD. SOX2 belongs to the SOX (SRY-box containing gene) gene family which encodes a group of transcription factors defined by the conserved high motility group (HMG) DNA-binding domain. They are involved in the regulation of embryonic development and in the determination of cell fate. Defects in SOX2 are a cause of true or primary anophthalmos, also called anophthalmia or ANOP3. Anophthalmos is a developmental defect characterized by complete absence of the eyes (rare) or by the presence of vestigial eyes. The poly6308 antibody has been shown to be useful for Western blotting.

Product Details

Verified Reactivity	Human
Antibody Type	Polyclonal
Host Species	Rabbit
Immunogen	Peptide-KLH (N-terminal)
Formulation	This antibody is provided in phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 50% glycerol.
Preparation	The antibody was purified by antigen-affinity chromatography.
Concentration	Lot-specific (to obtain lot-specific concentration, please enter the lot number in our Concentration and Expiration Lookup or Certificate of Analysis online tools.)
Storage & Handling	Upon receipt, store frozen at -20°C.
Application	WB
Recommended Usage	Each lot of this antibody is quality control tested by Western blotting . Western blotting, suggested working dilution(s): Use 10 µl per 5 ml antibody dilution buffer for each minigel. It is recommended that the reagent be titrated for optimal performance for each application.
Application Notes	This product may contain other non-IgG subtypes.
Product Citations	<ol style="list-style-type: none">1. Zywitza V, <i>et al.</i> 2022. iScience. 25:105414. PubMed2. Zhou T <i>et al.</i> 2017. Cell stem cell. 21(2):274-283 . PubMed3. Tchieu J <i>et al.</i> 2017. Cell stem cell. 21(3):399-410 . PubMed4. Rossbach B <i>et al.</i> 2016. Stem cell research. 16(2):314-7 . PubMed5. Ouyang J, <i>et al.</i> 2015. J Biol Chem. 290: 22782-22794. PubMed6. Cederquist GY, <i>et al.</i> 2020. Cell Stem Cell. 27(1):35-49.e6. PubMed7. Fu S, <i>et al.</i> 2018. Int J Mol Med. 41:87. PubMed
RRID	AB_830878 (BioLegend Cat. No. 630801) AB_2195784 (BioLegend Cat. No. 630802)

Antigen Details

Structure	Belongs to the SOX (SRY-box containing gene) gene family, predicted molecular weight 34 kD.
Distribution	Nucleus protein
Function	The SOX gene family encodes a group of transcription factors defined by the conserved high motility group (HMG) DNA-binding domain. They are involved in the regulation of embryonic development and in the determination of cell fate.
Interaction	Interacts with OCT4, OCT1, FTZ1, and Fibroblast growth factor 4 proteins.
Cell Type	Embryonic Stem Cells, Mesenchymal Stem Cells, Neural Stem Cells
Biology Area	Cell Biology, Immunology, Neuroscience, Neuroscience Cell Markers, Stem Cells, Transcription Factors
Antigen References	<ol style="list-style-type: none"> 1. Stevanovic M, <i>et al.</i> 1994. <i>Mammalian Genome</i> 5:640. 2. Okubo T, <i>et al.</i> 2006. <i>Genes Dev.</i> 20:2654. 3. Ragge NK, <i>et al.</i> 2005. <i>Am. J. Med. Genet.</i> 135A:1.
Gene ID	6657

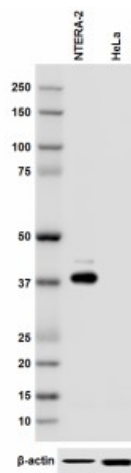
Related Protocols

[Western Blotting Protocol](#)

Other Formats

Purified anti-SOX2 (NH2 terminus)

Product Data



Total lysates (15 µg protein) from NTERA-2 and HeLa were resolved by electrophoresis (4-12% Bis-Tris gel), transferred to nitrocellulose, and probed with 1:500 purified anti-SOX2 antibody, clone Poly6308. Proteins were visualized using chemiluminescence detection by incubation with HRP anti-Rabbit secondary antibody (Cat. No. 410406, 1:3000 dilution). Direct-Blot™ HRP anti-β-actin antibody was used as a loading control (Cat. No. 664804, 1:25,000 dilution).

For research use only. Not for diagnostic use. Not for resale. BioLegend will not be held responsible for patent infringement or other violations that may occur with the use of our products.

*These products may be covered by one or more Limited Use Label Licenses (see the BioLegend Catalog or our website, www.biolegend.com/ordering#license). BioLegend products may not be transferred to third parties, resold, modified for resale, or used to manufacture commercial products, reverse engineer functionally similar materials, or to provide a service to third parties without written approval of BioLegend. By use of these products you accept the terms and conditions of all applicable Limited Use Label Licenses. Unless otherwise indicated, these products are for research use only and are not intended for human or animal diagnostic, therapeutic or commercial use.

BioLegend Inc., 8999 BioLegend Way, San Diego, CA 92121 www.biolegend.com
Toll-Free Phone: 1-877-Bio-Legend (246-5343) Phone: (858) 768-5800 Fax: (877) 455-9587