SOX2 Monoclonal Mouse Antibody (SOX2/1791)



Product Description

SOX2 is a member of the SRY-related HMG-box (SOX) family of transcription factors involved in the regulation of embryonic development and in the determination of cell fate. At present, 30 Sox genes have been identified. SOX2 is required for stem cell maintenance in the central nervous system, and it also regulates gene expression in the stomach. SOX2 is necessary for regulating multiple transcription factors that affect Oct 3/4 expression. An essential function of SOX2 is to stabilize embryonic stem cells in a pluripotent state by maintaining the requisite level of Oct 3/4 expression.

Primary antibodies are available purified, or with a selection of fluorescent CF® dyes and other labels. CF® dyes offer exceptional brightness and photostability. See the CF® Dye Brochure for more information. Note: Conjugates of blue fluorescent dyes like CF®405S and CF®405M are not recommended for detecting low abundance targets, because blue dyes have lower fluorescence and can give higher non-specific background

Stock status: Because Biotium offers a large number of antibody and conjugation options, primary antibody conjugates may be made to order. Typical lead times are up to one week for CF® dye and biotin conjugates, and up to 2-3 weeks for fluorescent protein and enzyme conjugates. Please email order@biotium.com to inquire about stock status and lead times before placing your order. Catalog number key for antibody number 1791, Anti-SOX2 (SOX2/1791)

Call us: 800-304-5357

Product attributes			
Antibody number	#1791		
Antibody reactivity (target)	SOX2		
Antibody type	Primary		
Host species	Mouse		
Clonality	Monoclonal		
Clone	SOX2/1791		
Isotype	IgG2b, kappa		
Molecular weight	34 kDa		
Synonyms	ANOP3; Delta EF2a; MCOPS3 (Microphthalmia Syndromic type 3); SOX-2; SRY (sex determining region Y box 2; SRY related HMG box 2; Transcription factor SOX-2; ysb		
Human gene symbol	SOX2		
Entrez gene ID	6657		
SwissProt	P48431		
Unigene	518438		
Immunogen	Recombinant human SOX2 protein fragment (aa176-305) (exact sequence is proprietary)		
Verified antibody applications	IHC (FFPE) (verified), WB (verified)		
Antibody target cellular	Nucleus		
localization Species reactivity	Human		
Antibody application notes	Higher concentration may be required for direct detection using primary antibody conjugates than for indirect detection with secondary antibody, Immunofluorescence: 1-2 ug/mL, ELIS/2-4 ug/mL for coating order Ab without BSA, Immunohistology (formalin): 0.5-1 ug/mL, Staining of formalin-fixed tissue requires boiling tissue sections in 10 m/h citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 min, Flow Cytometry 0.5-1 ug/million cells/0. mL, Western blotting 0.5-1 ug/million colls/0. Optimal dilution for a specific applicatio should be determined by user		
Positive control	MCF-7 cells or Cervical carcinoma		
Shipping condition	Room temperature		
Storage Conditions	Store at 2 to 8 °C, Protect fluorescent conjugates from light, Note: store BSA-free antibodies at -10 to -35 °C		
Shelf life	Guaranteed for at least 24 months from date of receipt when stored as recommended		
Regulatory status	For research use only (RUO)		
Antibody/conjugate formulation	Conjugates: 0.1 mg/mL in PBS/0.1% BSA/0.05% azide, HRP conjugates: 0.1 mg/mL in PBS/0.05% BSA, Purified: 0.2 mg/mL in PBS/0.05% BSA/0.05% azide		

Purified, BSA-free: 1 mg/mL in PBS

Stem cells, Transcription factors

Monospecific

Email: btinfo@biotium.com

Antibody # prefix	Conjugation	Ex/Em (nm)	Laser line	Detection channel
BNC04	CF®405S	404/431	405	DAPI (microscopy), AF405
BNC88	CF®488A	490/515	488	GFP, FITC
BNC68	CF®568	562/583	532, 561	RFP, TRITC
BNC94	CF®594	593/614	561	Texas Red®
BNC40	CF®640R	642/662	633-640	Cy®5
BNC47	CF®647	650/665	633-640	Cy®5
BNCB	Biotin	N/A	N/A	N/A
BNUB	Purified	N/A	N/A	N/A
BNUM	Purified,	N/A	N/A	N/A

BSA-free

CF®405S Features CF®488A Features CF®568 Features CF®594 Features CF®640R Features CF®647 Features

Validated in protein array

Antibody research areas

Dye Features

Cell/tissue expression

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