

Datasheet for ABIN6243285
anti-SOX2 antibody (AA 251-284)[Go to Product page](#)

4 Images

Overview

Quantity:	400 µL
Target:	SOX2
Binding Specificity:	AA 251-284
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SOX2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Flow Cytometry (FACS)

Product Details

Immunogen:	This SOX2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 251-284 amino acids from human SOX2.
Clone:	RB14259
Isotype:	Ig Fraction
Predicted Reactivity:	C, M, Sh, X
Purification:	This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Target Details

Target:	SOX2
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Target Details

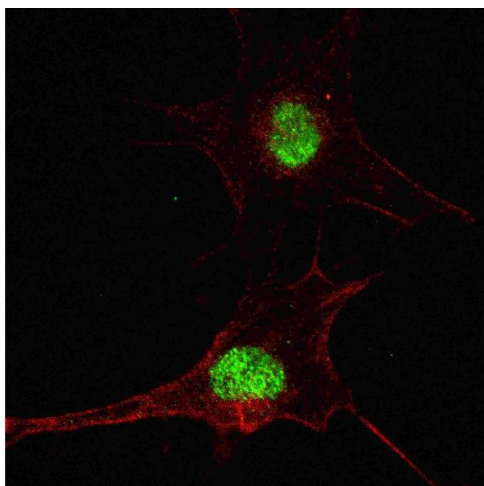
Alternative Name:	SOX2 (SOX2 Products)
Background:	SOX2 is a member of the SRY-related HMG-box (SOX) family of transcription factors involved in the regulation of embryonic development and in the determination of cell fate. This protein may act as a transcriptional activator after forming a protein complex with other proteins. Mutations in the SOX2 gene have been associated with bilateral anophthalmia, a severe form of structural eye malformation.
Molecular Weight:	34310
NCBI Accession:	NP_003097
UniProt:	P48431
Pathways:	Dopaminergic Neurogenesis , Sensory Perception of Sound , Stem Cell Maintenance , Cell RedoxHomeostasis

Application Details

Application Notes:	IF: 1:100. WB: 1:1000. WB: 1:1000. FC: 1:10~50
Restrictions:	For Research Use only

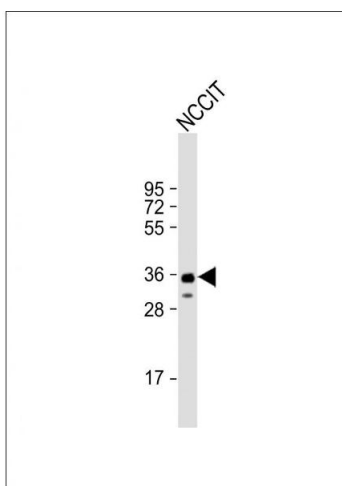
Handling

Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Expiry Date:	6 months



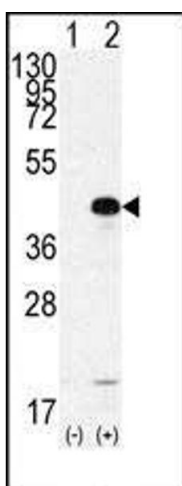
Immunofluorescence

Image 1. Fluorescent confocal image of SY5Y cells stained with SOX2 antibody. SY5Y cells were fixed with 4 % PFA (20 min), permeabilized with Triton X-100 (0.2 %, 30 min). Cells were then incubated with (ABIN6243285 and ABIN6577390) SOX2 primary antibody (1:100, 2 h at room temperature). For secondary antibody, Alexa Fluor® 488 conjugated donkey anti-rabbit antibody (green) was used (1:1000, 1h). Nuclei were counterstained with Hoechst 33342 (blue) (10 µg/mL, 5 min). Note the highly specific localization of the SOX2 immunosignal to the nucleus.



Western Blotting

Image 2. Anti-SOX2 Antibody at 1:1000 dilution + NCCIT whole cell lysate. Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 34 kDa. Blocking/Dilution buffer: 5 % NFDM/TBST.



Western Blotting

Image 3. Western blot analysis of SOX2 (arrow) using rabbit polyclonal SOX2 Antibody (ABIN6243285 and ABIN6577390). 293 cell lysates (2 µg/lane) either nontransfected (Lane 1) or transiently transfected with the SOX2 gene (Lane 2) (Origene Technologies).

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN6243285.