

# SOX2 Monoclonal Antibody (SP76)

Product Details	
Size	500 µL
Species Reactivity	Human, Mouse
Host/Isotope	Rabbit / IgG
Class	Monoclonal
Type	Antibody
Clone	SP76
Conjugate	Unconjugated
Immunogen	Synthetic peptide corresponding to N-terminus of human SOX-2 protein.
Form	Liquid
Purification	Protein A/G
Storage buffer	PBS, pH 7.6, with 1% BSA
Contains	0.1% sodium azide
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_2537918

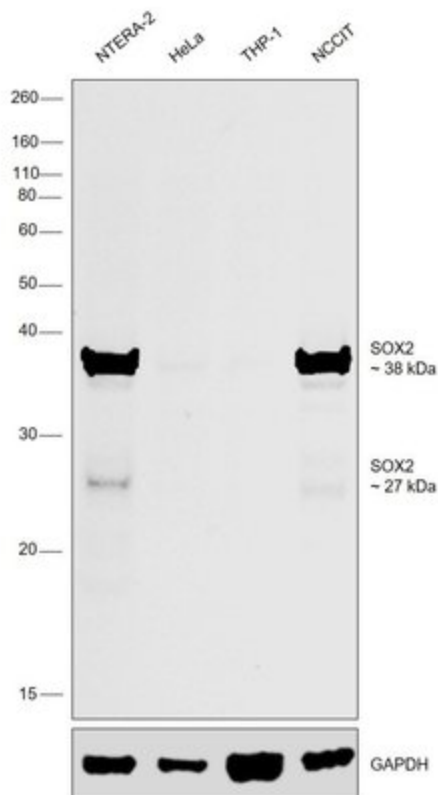
Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	1:200	-
Immunocytochemistry (ICC)	1:50-1:100	-
Immunofluorescence (IF)	1:50-1:100	-
Immunohistochemistry (Paraffin) (IHC (P))	1:100	-
Western Blot (WB)	1:100-1:500	-

## Product Specific Information

Heat-mediated antigen retrieval is recommended prior to staining, using a 10mM citrate buffer, pH 6.0, for 10 minutes followed by cooling at room temperature for 20 min. Following antigen retrieval, incubate samples with primary antibody for 30 min at room temperature. A suggested positive control is prostate or lung squamous cell carcinoma.

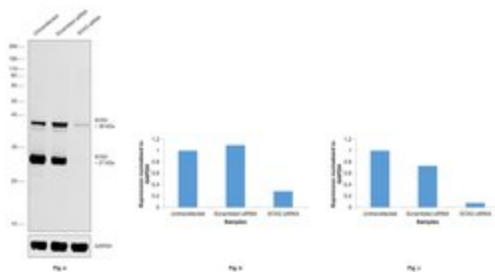
**SOX2 Antibody (MA5-16399)**

Antibody specificity was demonstrated by detection of differential basal expression of the target across cell lines tested owing to their inherent genetic constitution. Relative expression of SOX2 was observed in NTERA-2 and NCCIT in comparison to HeLa and THP-1 using Anti-SOX2 Monoclonal Antibody (SP76) (Product # MA5-16399) in Western Blot. Relative expression validation info.



**SOX2 Antibody (MA5-16399)**

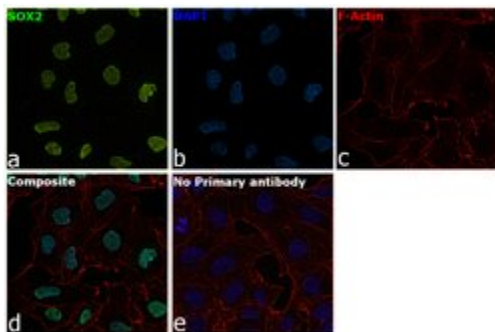
Antibody specificity was demonstrated by siRNA mediated knockdown of target protein. NTERA-2 cl.D1 cells were transfected with SOX2 siRNA and decrease in signal intensity was observed in Western Blot application using Anti-SOX2 Monoclonal Antibody (SP76) (Product # MA5-16399). Knockdown validation info.



## Product Images For SOX2 Monoclonal Antibody (SP76)

### SOX2 Antibody (MA5-16399) in ICC

Immunofluorescence analysis of SOX2 was performed using 70% confluent log phase NTERA-2 cl.D1 cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 15 minutes, and blocked with 2% BSA for 45 minutes at room temperature. The cells were labeled with SOX2 Monoclonal Antibody (SP76) (Product # MA5-16399) at 1:100 dilution in 0.1% BSA, incubated at 4 degree celsius overnight and then labeled with Donkey anti-Rabbit IgG (H+L) Highly Cross-Adsorbed Secondary Antibody, Alexa Fluor Plus 488 (Product # A32790, 1:2000 dilution), for 45 minutes at room temperature (Panel a: Green). Nuclei (Panel b: Blue) were stained with ProLong™ Diamond Antifade Mountant with DAPI (Product # P36962). F-actin (Panel c: Red) was stained with Rhodamine Phalloidin (Product # R415, 1:300 dilution). Panel d represents the merged image showing nuclear localization. Panel e represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.



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