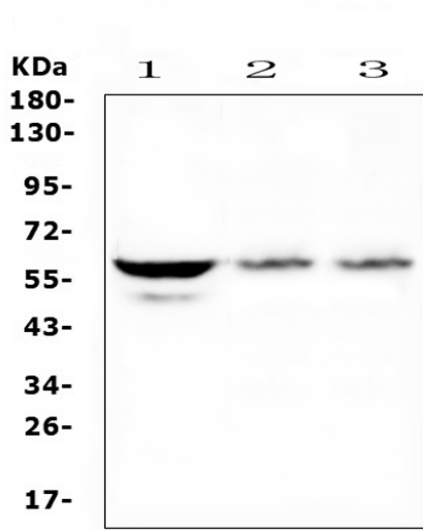
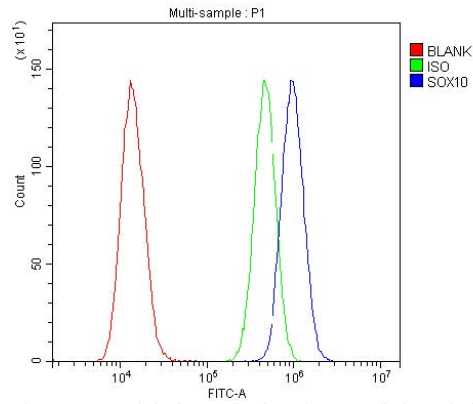


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<b>Product name:</b>	SOX10 Rabbit Polyclonal Antibody
<b>Cat number:</b>	AB-84777
<b>Conjugate:</b>	Unconjugated
<b>Size:</b>	100 ug
<b>Clone:</b>	POLY
<b>Concentration:</b>	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
<b>Host:</b>	Rabbit
<b>Isotype:</b>	IgG
<b>Immunogen:</b>	A synthetic peptide corresponding to a sequence in the middle region of human SOX10, which shares 97.1% amino acid (aa) sequence identity with both mouse and rat SOX10.
<b>Reactivity:</b>	Human, Mouse, Rat
<b>Applications:</b>	Western blot, 0.1-0.5ug/ml Flow Cytometry, 1-3ug/1x10 <sup>6</sup> cells
<b>Molecular Weight:</b>	60kDa
<b>Form:</b>	Lyophilized
<b>Buffer:</b>	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05mg Na <sub>3</sub> N.
<b>Storage:</b>	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
<b>Background:</b>	Transcription factor SOX-10 is a protein that in humans is encoded by the SOX10 gene. This gene encodes a member of the SOX (SRY-related HMGbox) family of transcription factors involved in the regulation of embryonic development and in the determination of the cell fate. The encoded protein may act as a transcriptional activator after forming a protein complex with other proteins. This protein acts as a nucleocytoplasmic shuttle protein and is important for neural crest and peripheral nervous system development. Mutations in this gene are associated with Waardenburg- Shah and Waardenburg-Hirschsprung disease.



Western blot analysis of SOX10 using anti-SOX10 antibody. Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: human U-87MG cell lysate, Lane 2: human A375 cell lysate, Lane 3: human A375 cell lysate. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti- SOX10 antigen affinity purified polyclonal antibody at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for SOX10 at approximately 60KD. The expected band size for SOX10 is at 50KD.



Flow Cytometry analysis of U20S cells using anti- SOX10 antibody. Overlay histogram showing U20S cells stained with (Blue line).The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti- SOX10 Antibody (1ug/1x10<sup>6</sup> cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG(5-10ug/1x10<sup>6</sup> cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10<sup>6</sup>) used under the same conditions. Unlabelled sample (Red line) was also used as a control.