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<b>Catalog Number:</b>	MO15040	<b>Host:</b>	Mouse
<b>Product Type:</b>	Protein G purified mouse IgG2A <b>Clone:</b> 245610	<b>Species Reactivity:</b>	Human
<b>Immunogen Sequence:</b>	Recombinant human SOX2 (aa 135 - 317).	<b>Format:</b>	Liquid 0.2 µm filtered solution in PBS with Trehalose 1.0 mg/ml
<b>Applications:</b>	<b>Immunocytochemistry:</b> 10 µg/mL <b>Flow Cytometry:</b> 50 µg/mL <b>Western Blot:</b> 1-2 µg/mL Tested by Western Blotting using recombinant human SOX2		
<b>Storage:</b>	Antibody can also be aliquotted and stored frozen at -20° C to -70° C in a manual defrost freezer for six months without detectable loss of activity. The antibody can be stored at 2° - 8° C for 1 month without detectable loss of activity. <i>Avoid repeated freeze-thaw cycles.</i>		

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### Application Notes

#### Specificity

This antibody was selected for its ability to detect human SOX2 in western blots and immunocytochemistry applications.

#### Immunocytochemistry

This antibody was used at a concentration of 10 µg/mL to detect human SOX2 on NTERA-2 cells. Cells were fixed with PBS containing 4% paraformaldehyde for 20 minutes at room temperature, then blocked with PBS containing 0.1% Triton X-100, 1% BSA and 10% normal donkey serum at room temperature for 45 minutes. After blocking, cells were incubated with diluted primary antibody overnight at 4° C followed by Rhodamine Red coupled anti-mouse IgG at room temperature in the dark for one hour. Between each step, cells were washed with PBS containing 0.1% BSA.

#### Western Blot

This antibody can be used at 1 - 2 µg/mL with the appropriate secondary reagents to detect human SOX2. The detection limit for recombinant human SOX2 is approximately 5 ng/lane under non-reducing and reducing conditions.

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