

Anti-HOXB2 Antibody [PCRP-HOXB2-1F2] - BSA and Azide free (A278232)**Specifications:**

Name:	Anti-HOXB2 Antibody [PCRP-HOXB2-1F2] - BSA and Azide free
Description:	Mouse monoclonal [PCRP-HOXB2-1F2] antibody to HOXB2.
Specificity:	Hox genes play a fundamental role in the development of the vertebrate central nervous system, heart, axial skeleton, limbs, gut, urogenital tract and external genitalia. The homeobox gene HoxB1 is critical to hindbrain development and has phenotypic features frequently observed in autism. Analysis of expression and targeted disruption of HoxB1 demonstrates that it is also essential for patterning progenitor cells along the entire DV axis of rhombomere 4 (r4). HoxB1 maintains this function by acting very early during hindbrain neurogenesis to specify effectors of the Sonic hedgehog and Mash1 signaling pathways. HoxB2 is a homeodomain protein important in neural development that is also expressed during erythropoiesis, hindbrain development and normal human adult lung development. HoxB2 may modulate the amount of gamma-globin mRNA expressed during development and differentiation. In addition, HoxB2 plays an important role in the patterning of hindbrain and pharyngeal arches in the zebrafish.
Applications:	ELISA, IP, Flow Cytometry, IF, WB, IHC-P
Recommended Dilutions:	IP: 1-2 μ g / 100-500 μ g proteins, Flow Cytometry: 1-2 μ g/million cells, IF: 1-2 μ g/ml, WB: 1-2 μ g/ml, IHC-P: 1-2 μ g/ml
Reactivity:	Human
Immunogen:	Recombinant fragment, around amino acids 114-220, of human HOXB2 protein. The exact sequence is proprietary.
Host:	Mouse
Clonality:	Monoclonal
Clone ID:	PCRP-HOXB2-1F2
Isotype:	IgG2b
Conjugate:	Unconjugated
Purification:	Protein A/G chromatography.
Concentration:	1 mg/ml
Product Form:	Liquid
Formulation:	Supplied in 10mM Phosphate Buffered Saline; without Sodium Azide and carrier free.
Storage:	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.

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Specifications continued:

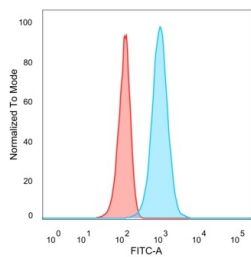
General Notes:

This monoclonal antibody is also available in a different formulation with BSA and Sodium Azide - Anti-HOXB2 Antibody [PCRP-HOXB2-1F2] (A277644).

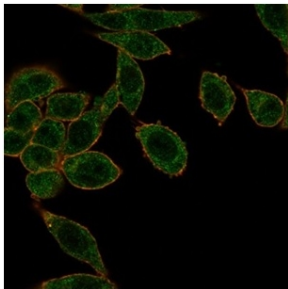
Disclaimer:

This product is for research use only. It is not intended for diagnostic or therapeutic use.

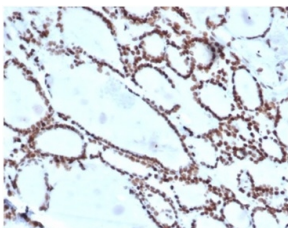
Images:



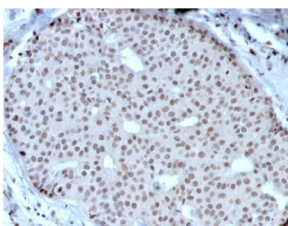
Flow cytometric analysis of PFA-fixed HeLa cells using Anti-HOXB2 Antibody [PCRP-HOXB2-1F2] followed by Goat Anti-Mouse IgG (CF® 488) (Blue). Isotype Control (Red).



Immunofluorescent analysis of PFA-fixed HeLa cells stained with Anti-HOXB2 Antibody [PCRP-HOXB2-1F2] followed by Goat Anti-Mouse IgG (CF® 488) (Green). CF® 640A Phalloidin (Red).



Immunohistochemical analysis of formalin-fixed, paraffin-embedded human thyroid using Anti-HOXB2 Antibody [PCRP-HOXB2-1F2] at 2µg/ml in PBS for 30 minutes at room temperature.



Immunohistochemical analysis of formalin-fixed, paraffin-embedded human breast carcinoma using Anti-HOXB2 Antibody [PCRP-HOXB2-1F2] at 2µg/ml in PBS for 30 minutes at room temperature.