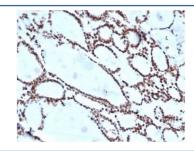


HOXB2 Antibody [clone PCRP-HOXB2-1F2] (V9653)

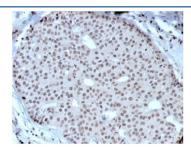
Catalog No.	Formulation	Size
V9653-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V9653-20UG	0.2~mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V9653SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

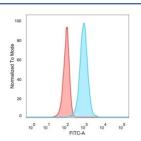
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2b
Clone Name	PCRP-HOXB2-1F2
Purity	Protein A/G affinity
UniProt	P14652
Applications	ELISA (order BSA-free Format For Coating) : Flow Cytometry : 1-2ug/million cells Immunofluorescence : 1-2ug/ml Western Blot : 1-2ug/ml Immunohistochemistry (FFPE) : 1-2ug/ml
Limitations	This HOXB2 antibody is available for research use only.



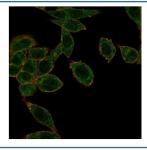
IHC staining of FFPE human thyroid tissue with HOXB2 antibody (clone PCRP-HOXB2-1F2) at 2ug/ml in PBS for 30min RT. HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



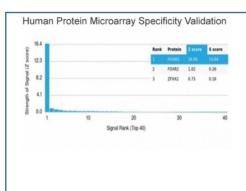
IHC staining of FFPE human breast carcinoma tissue with HOXB2 antibody (clone PCRP-HOXB2-1F2) at 2ug/ml in PBS for 30min RT. HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



FACS staining of PFA-fixed human HeLa cells with HOXB2 antibody (blue, clone PCRP-HOXB2-1F2) and isotype control (red).



Immunofluorescent staining of PFA-fixed human HeLa cells using HOXB2 antibody (green, clone PCRP-HOXB2-1F2) and phalloidin (red).



Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using HOXB2 antibody (clone PCRP-HOXB2-1F2). These results demonstrate the foremost specificity of the PCRP-HOXB2-1F2 mAb. Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt(TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt(TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.

Description

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.

Application Notes

Optimal dilution of the HOXB2 antibody should be determined by the researcher.

Immunogen

A portion of amino acids 114-220 was used as the immunogen for the HOXB2 antibody. **Storage** Aliquot the HOXB2 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles. Ordering: Phone: 858.663.9055 | Fax: 1.267.821.0800 | Email: info@nsjbio.com Copyright $\ensuremath{\texttt{@}}$ NSJ Bioreagents. All rights reserved.