

Anti-HOXB2 Antibody

Catalog # AP51264

Product Information

Application	WB, IHC, IF/IC
Primary Accession	P14652
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	37914

Additional Information

Gene ID	3212
Other Names	HOX2H; Homeobox protein Hox-B2; Homeobox protein Hox-2.8; Homeobox protein Hox-2H; K8
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human HOXB2. The exact sequence is proprietary.
Dilution	WB~~ 1:1000 IHC~~1:100~500 IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

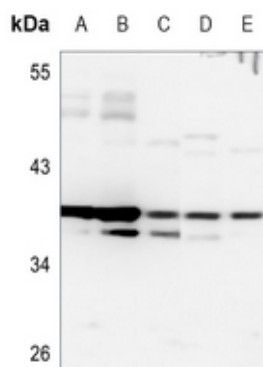
Protein Information

Name	HOXB2
Synonyms	HOX2H
Function	Sequence-specific transcription factor which is part of a developmental regulatory system that provides cells with specific positional identities on the anterior-posterior axis.
Cellular Location	Nucleus.

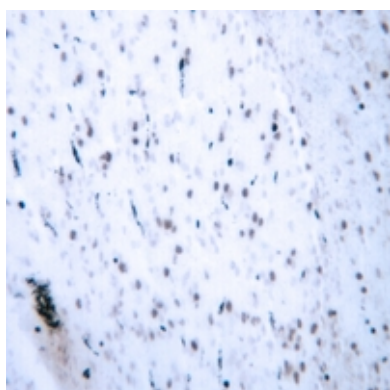
References

Acampora D.,et al.Nucleic Acids Res. 17:10385-10402(1989).
Giampaolo A.,et al.Differentiation 40:191-197(1989).
Boncinelli E.,et al.Genome 31:745-756(1989).

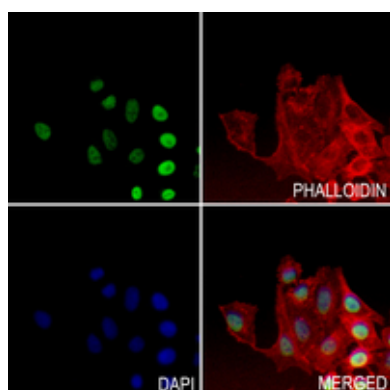
Images



Western blot analysis of HOXB2 expression in H446 (A), H1792 (B), mouse kidney (C), rat kidney (D), rat muscle (E) whole cell lysates. (Predicted band size: 37 kD; Observed band size: 38 kD)



Immunohistochemical analysis of HOXB2 staining in rat brain formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of HOXB2 staining in H460 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.