

Rabbit HOXC8 Polyclonal Antibody | anti-HOXC8 antibody

Anti-HOXC8 Antibody

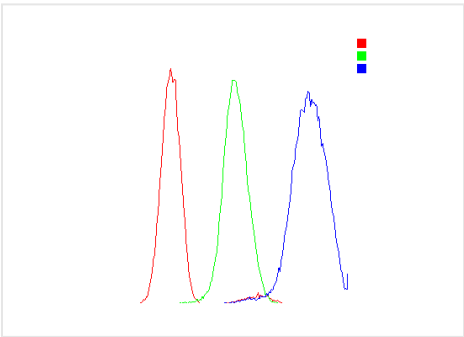
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA125774	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Western Blot

PRODUCT SYNONYMS

HOXC8; Polyclonal Antibody; Anti-HOXC8 Antibody; Hoxc8; Hoxc-8; Homeobox protein Hox-C8; Homeobox protein R4; Fragment; homeobox C8; anti-HOXC8 antibody

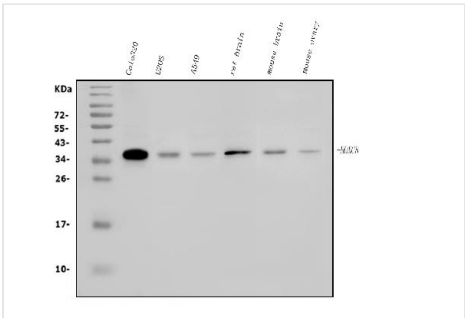
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rabbit IgG polyclonal antibody for HOXC8 detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.005mg NaN3.
Applicable Applications for anti-HOXC8 antibody	ELISA (Direct ELISA), FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E Coli-derived human HOXC8 recombinant protein (Position: E17-S133).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Recommended Detection Systems	Recommended Detection Systems
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.



FCM/FACS (Flow Cytometry)

Figure 2. Flow Cytometry analysis of U251 cells using anti-HOXC8 antibody (AAA125774). Overlay histogram showing U251 cells stained with AAA125774 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-HOXC8 Antibody (AAA125774, 1μg/1x106 cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (5-10μg/1x106 cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1μg/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



WB (Western Blot)

Figure 1. Western blot analysis of HOXC8 using anti-HOXC8 antibody (AAA125774). 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 COLO-320 whole cell lysates Lane 2: human U20S whole cell lysates Lane 3: human A549 whole cell lysates Lane 4: rat brain tissue lysates Lane 5: mouse brain tissue lysates Lane 6: mouse ovary tissue lysates. 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-HOXC8 antigen affinity purified polyclonal antibody (Catalog # AAA125774) at 0. 5 μg/mL overnight at 4 degree 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 1:5000 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 HOXC8 at approximately 35KD. The expected band size for HOXC8 is at 35KD.

ADDITIONAL INFORMATION

Related Product Information for anti-HOXC8 antibody	Homeobox protein Hox-C8 is a protein that in humans is encoded by the HOXC8 gene. This gene belongs to the homeobox family of genes. The homeobox genes encode a highly conserved family of transcription factors that play an important role in morphogenesis in all multicellular organisms. Mammals possess four similar homeobox gene clusters, HOXA, HOXB, HOXC and HOXD, which are located on different chromosomes and consist of 9 to 11 genes arranged in tandem. This gene is one of several homeobox HOXC genes located in a cluster on chromosome 12. The product of this gene may play a role in the regulation of cartilage differentiation. It could also be involved in chondrodysplasias or other cartilage disorders.
References	1. Acampora, D., D'Esposito, M., Faiella, A., Pannese, M., Migliaccio, E., Morelli, F., Stornaiuolo, A., Nigro, V., Simeone, A., Boncinelli, E. The human HOX gene family. Nucleic Acids Res. 17: 10385-10402, 1989. 2. Cannizzaro, L. A., Croce, C. M., Griffin, C. A., Simeone, A., Boncinelli, E., Huebner, K. Human homeo box-containing genes located at chromosome regions 2q31-2q37 and 12q12-12q13. Am. J. Hum. Genet. 41: 1-15, 1987. 3. Masuda, R., Yuhki, N., O'Brien, S. J. Molecular cloning, chromosomal assignment, and nucleotide sequence of the feline homeobox HOX3A. Genomics 11: 1007-1013, 1991.

NCBI AND UNIPROT INFORMATION

NCBI GI #	13124745
NCBI GeneID	3224
UniProt Accession #	P31273; O15221; O15362; A8K4J4
Molecular Weight	242
NCBI Official Full Name	Homeobox protein Hox-C8
NCBI Official Synonym Full Names	homeobox C8
NCBI Official Symbol	HOXC8
NCBI Official Synonym Symbols	HOX3; HOX3A
NCBI Protein Information	homeobox protein Hox-C8; homeo box 3A; homeo box C8; homeobox protein Hox-3A; Hox-3.1, mouse, homolog of

UniProt Protein Name	Homeobox protein Hox-C8
UniProt Gene Name	HOXC8
UniProt Synonym Gene Names	HOX3A
UniProt Entry Name	HXC8_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/hoxc8-antibody-direct-elisa-flow-cytometry-western-blot-elisa/125774>