Rabbit anti-Human HOXC10 Polyclonal Antibody | anti-HOXC10 antibody

Anti-HOXC10 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA125805	**Rabbit**	**Human**	**ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot**

PRODUCT SYNONYMS

HOXC10; Polyclonal Antibody; Anti-HOXC10 Antibody; HOX3I; Homeobox protein Hox-C10; Homeobox protein Hox-3I; homeobox C10; anti-HOXC10 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rabbit IgG polyclonal antibody for HOXC10 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-HOXC10 antibody	ELISA (Direct ELISA), FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	E Coli-derived human HOXC10 recombinant protein (Position: M1-K250).
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.

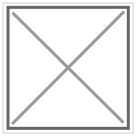
IMAGES



FCM/FACS (Flow Cytometry)
Figure 3. Flow Cytometry analysis of U251 cells using anti-HOXC10 antibody (AAA125805).Overlay histogram showing U251 cells stained with AAA125805 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-HOXC10 Antibody (AAA125805, 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.



IF (Immunofluorescence)
Figure 2. IF analysis of HOXC10 using anti- HOXC10 antibody (AAA125805).HOXC10 was detected in immunocytochemical section of T-47D cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5μg/mL rabbit anti- HOXC10 Antibody (AAA125805) overnight at 4 degree C. DyLight®488 Conjugated Goat Anti-Rabbit IgG was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



WB (Western Blot)
Figure 1. Western blot analysis of HOXC10 using anti-HOXC10 antibody (AAA125805).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 30ug of sample under reducing conditions.Lane 1: human Hela whole cell lysatesLane 2: human T-47D whole cell 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-HOXC10 antigen affinity purified polyclonal antibody (Catalog # AAA125805) 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 HOXC10 at approximately 48KD. The expected band size for HOXC10 is at 38KD.

ADDITIONAL INFORMATION

Related Product Information for anti-HOXC10 antibody	Homeobox protein Hox-C10 is a protein that in humans is encoded by the HOXC10 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 protein level is controlled during cell differentiation and proliferation, which may indicate this protein has a role in origin activation.
References	1. Pathiraja, T. N., Nayak, S. R., Xi, Y., Jiang, S., Garee, J. P., Edwards, D. P., Lee, A. V., Chen, J., Shea, M. J., Santen, R. J., Gannon, F., Kangaspeska, S., and 10 others. Epigenetic reprogramming of HOXC10 in endocrine-resistant breast cancer. Sci. Trans. Med. 6: e229, 2014. 2. Scott, M. P. Vertebrate homeobox gene nomenclature. Cell 71: 551-553, 1992. 3. Zhai, Y., Kuick, R., Nan, B., Ota, I., Weiss, S. J., Trimble, C. L., Fearon, E. R., Cho, K. R. Gene expression analysis of preinvasive and invasive cervical squamous cell carcinomas identifies HOXC10 as a key mediator of invasion. Cancer Res. 67: 10163-10172, 2007.

NCBI AND UNIPROT INFORMATION

NCBI GI #	24497533
NCBI GeneID	3226
NCBI Accession #	NP_059105
NCBI GenBank Nucleotide #	NM_017409
UniProt Accession #	Q9NYD6; O15219; O15220; Q9BVD5
Molecular Weight	38,073 Da
NCBI Official Full Name	homeobox protein Hox-C10
NCBI Official Synonym Full Names	homeobox C10
NCBI Official Symbol	HOXC10
NCBI Official Synonym Symbols	HOX3I
NCBI Protein Information	homeobox protein Hox-C10; homeo box C10; homeobox protein Hox-3I; homeoprotein C10
UniProt Protein Name	Homeobox protein Hox-C10
UniProt Gene Name	**HOXC10**
UniProt Synonym Gene Names	HOX3I

UniProt Entry Name	HXC10_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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