

Rabbit Homeobox protein Hox-A11 Polyclonal Antibody | anti-HOXA11 antibody

Anti-HOXA11 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA46021	Rabbit	Human, Mouse, Rat. No cross reactivity with other proteins.	Western Blot

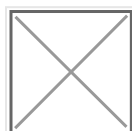
PRODUCT SYNONYMS

Homeobox protein Hox-A11; Polyclonal Antibody; Anti-HOXA11 Antibody; Homeo box 1l antibody; Homeo box A11 antibody; Homeobox A11 antibody; Homeobox protein Hox A11 antibody; Homeobox protein Hox-1l antibody; Homeobox protein Hox-A11 antibody; Homeobox protein HOXA11 antibody; Hox 1l antibody; Hox-1l antibody; HOX1 antibody; HOX1l antibody; HOXA11 antibody; HXA11_HUMAN antibody; homeobox A11; anti-HOXA11 antibody

PRODUCT SPECIFICATIONS

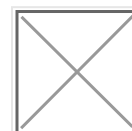
Host	Rabbit
Reactivity	Human, Mouse, Rat. No cross reactivity with other proteins.
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Sequence Length	313
Applicable Applications for anti-HOXA11 antibody	WB (Western Blot)
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Immunogen	E.coli-derived human HOXA11 recombinant protein (Position: H74-R245). Human HOXA11 shares 95% amino acid (aa) sequence identity with mouse HOXA11.
Preparation and Storage	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 U937 cells using anti-HOXA11 antibody (AAA46021). Overlay histogram showing U937 cells stained with AAA46021 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-HOXA11 Antibody (AAA46021, 1ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight @488 conjugated goat anti-rabbit IgG (5-10ug/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



WB (Western Blot)

Figure 2. Western blot analysis of HOXA11 using anti-HOXA11 antibody (AAA46021). 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: Rat Brain Tissue Lysate, Lane 2: Human Placenta Tissue Lysate, Lane 3: HLEA Whole Cell Lysate, Lane 4: HT1080 Whole Cell Lysate, Lane 5: HEPA Whole Cell Lysate. 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-HOXA11 antigen affinity purified polyclonal antibody at 0.5ug/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 1:10000 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 HOXA11 at approximately 35KD. The expected band size for HOXA11 is at 35KD.



WB (Western Blot)

Figure 1. Western blot analysis of HOXA11 using anti-HOXA11 antibody (AAA46021). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. Lane 1: Recombinant Human HOXA11 Protein 0.5ng. 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-HOXA11 antigen affinity purified polyclonal antibody at 0.5ug/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 1:10000 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 HOXA11 at approximately 38KD. The expected band size for HOXA11 is at 38KD.

ADDITIONAL INFORMATION

Related Product Information for anti-HOXA11 antibody	Description: Rabbit IgG polyclonal antibody for Homeobox protein Hox-A11(HOXA11) detection. Tested with WB in Human;Mouse;Rat. Background: Homeobox protein Hox-A11 is a protein that in humans is encoded by the HOXA11 gene. It is mapped to 7p15.2. Expression of these proteins is spatially and temporally regulated during embryonic development. This gene is involved in the regulation of uterine development and is required for female fertility. HOXA11 is essential for the development of the uterosacral ligaments, it has been found that women with pelvic organ prolapse may have weakened connective tissue due to changes in this signaling pathway. Mutations in this gene can cause radio-ulnar synostosis with amegakaryocytic thrombocytopenia.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	5031759
NCBI GeneID	3207
NCBI Accession #	NP_005514.1
NCBI GenBank Nucleotide #	NM_005523.5
UniProt Accession #	P31270; A4D190
Molecular Weight	34,486 Da
NCBI Official Full Name	homeobox protein Hox-A11
NCBI Official Synonym Full Names	homeobox A11
NCBI Official Symbol	HOXA11
NCBI Official Synonym Symbols	HOX1; HOX1I
NCBI Protein Information	homeobox protein Hox-A11; homeo box 1I; homeobox protein HOXA11; homeobox protein Hox-1I
UniProt Protein Name	Homeobox protein Hox-A11
UniProt Gene Name	HOXA11
UniProt Synonym Gene Names	HOX1I
UniProt Entry Name	HXA11_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.