abcam

ab248855

Anti-HOXD10 antibody [EPR9374] - BSA and Azide free

Recombinant | RabMAb

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Constituents: PBS
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Carrier free	Yes
Clone number	EPR9374
Purification technique	Affinity purification
Concentration	1.019 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IP

Not recommended

Species	Mouse, Human, Rat
Dilution info	-

Notes	-

WB

Tested

Species	Human
Dilution info	-
Notes	-

Expected

Species	Mouse, Rat
Dilution info	Use at an assay dependent concentration.
Notes	-

IHC-P

Not recommended

Species	Mouse, Human, Rat
Dilution info	-
Notes	-

ICC/IF

Not recommended

Species	Mouse, Human, Rat
Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	-

Notes	-

Expected

Species	Mouse
Dilution info	Use at an assay dependent concentration.
Notes	-

Predicted

Species	Rat
Dilution info	-
Notes	-

Target data

See full target information HOXD10

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.

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	+4°C
Storage information	Do Not Freeze

Notes

ab248855 is the carrier-free version of ab138508.

Patented technology

Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

What are the advantages of a recombinant monoclonal antibody?
This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free batch production

For more information, read more on recombinant antibodies.

Conjugation ready
Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.

Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with 1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.

Compatibility
This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc.

Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

Activity summary	The HOXD10 protein also known as Homeobox D10 is a member of the homeobox family of transcription factors that plays a mechanical role in regulating gene expression. This protein possesses a molecular mass of approximately 39 kDa. It primarily localizes in the nucleus where it binds to DNA and influences transcriptional activity during development and differentiation processes. HOXD10 expression occurs in tissues including the limbs and during various stages of embryonic development.
Biological function summary	The HOXD10 protein contributes to limb morphology and development. It functions independently but also interacts with other proteins and factors to control morphogenetic processes. HOXD10 influences cellular differentiation by modulating the expression of target genes necessary for specifying position and structure in developing tissues. Its expression is tightly regulated to ensure proper developmental patterns including in limb formation and spatial organization.
Pathways	The function of HOXD10 intricately links to the regulation of the developmental pathway known as the HOX gene pathway. This pathway coordinates with other pathways such as those controlling limb development to ensure the correct timing and positioning of structures during embryogenesis. Within these pathways other homeobox proteins like HOXA10 and HOXD11 have similar roles complementing and sometimes interacting with HOXD10 to orchestrate the precise patterning necessary for normal development.
Associated diseases and disorders	Mutations or dysregulation of HOXD10 associate with limb malformations and possibly contribute to the development of some cancers like breast carcinoma. Its aberrant expression influences the activity of other critical proteins involved in

cellular proliferation and differentiation such as p53 which affects tumorigenesis. Understanding the role and regulation of HOXD10 could provide insights into novel therapeutic strategies for these conditions.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

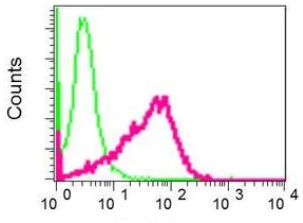
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

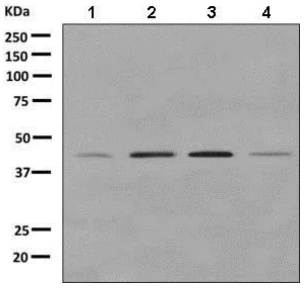
2 product images



Flow Cytometry (Intracellular) - Anti-HOXD10 antibody [EPR9374] - BSA and Azide free (ab248855)

HOXD10 Flow Cytometry (Intracellular) staining using rabbit Anti-HOXD10 antibody

This data was developed using ab138508, the same antibody clone in a different buffer formulation.
Intracellular flow cytometrical analysis of permeabilized HeLa cells with ab138508 antibody at a dilution of 1/100 (red) or a rabbit IgG negative (green).



Western blot - Anti-HOXD10 antibody [EPR9374] - BSA and Azide free (ab248855)

This data was developed using ab138508, the same antibody clone in a different buffer formulation.
All lanes:
Western blot - Anti-HOXD10 antibody [EPR9374] (ab138508) at 1/1000 dilution

Lane 1:
ECV-304 cell lysate at 10 µg

Lane 2:
Fetal heart cell lysate at 10 µg

Lane 3:
Mouse heart cell lysate at 10 µg

Lane 4:
HeLa cell lysate at 10 µg

Secondary

All lanes:
HRP labelled goat anti-rabbit at 1/2000 dilution

Predicted band size: 38 kDa

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