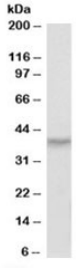
HOXA10 Antibody Biotin Conjugate (R35106BTN)

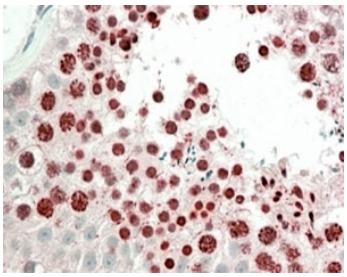
Catalog No.	Formulation	Size
R35106BTN	0.5 mg/ml in 1X TBS, pH7.3, with 0.5% BSA (US sourced) and 0.02% sodium azide	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Predicted Reactivity	Cow, Mouse, Pig
Format	Biotin Conjugate
Host	Goat
Clonality	Polyclonal (goat origin)
Isotype	Goat Ig
Purity	Antigen affinity
UniProt	P31260
Gene ID	3206
Applications	Western blot: 0.2-0.6ug/ml Immunohistochemistry (FFPE): 5ug/ml ELISA (peptide) LOD: 1:32000
Limitations	This HOXA10 antibody is available for research use only.



Western blot testing of human skeletal muscle lysate with HOXA10 antibody at 0.2ug/ml. Predicted molecular weight: ~42kDa.



IHC staining of FFPE human testis with HOXA10 antibody at 5ug/ml. HIER: steamed with pH6 citrate buffer, AP-staining.

Description

HOXA10 Antibody Biotin Conjugate recognizes HOXA10, a highly conserved homeobox transcription factor that regulates embryonic development, anterior-posterior body patterning, and tissue differentiation. HOXA10 functions as a sequence-specific DNA-binding protein that controls the expression of genes involved in organogenesis, morphogenesis, and cellular lineage specification. In addition to its essential developmental roles, HOXA10 contributes to adult tissue homeostasis by regulating stem cell function, endometrial receptivity, and reproductive tract development. Biotin conjugation enables sensitive detection of HOXA10 in biotin-streptavidin-based immunoassays while preserving the antibody's specificity for its target protein.

HOXA10 is expressed in multiple tissues during embryogenesis and remains active in selected adult tissues, particularly within the reproductive system, hematopoietic compartment, and mesenchymal cell populations. Tight spatial and temporal regulation of HOXA10 expression is required for normal tissue development and differentiation, whereas altered expression has been linked to infertility, endometriosis, leukemia, ovarian cancer, endometrial carcinoma, and other malignancies. As a master regulator of developmental transcriptional programs, HOXA10 continues to be widely investigated in developmental biology, stem cell research, reproductive medicine, and oncology. HOXA10 Antibody Biotin Conjugate is well suited for applications requiring sensitive detection of HOXA10 through biotin-streptavidin amplification systems, including immunohistochemistry, immunocytochemistry, ELISA, and other affinity-based assays.

Explore our HOXA10 Antibody / Developmental Transcription Factor Antibody page to learn more about this key regulator of embryonic development, tissue differentiation, and developmental gene expression.

Application Notes

Optimal dilution of the HOXA10 antibody should be determined by the researcher.

Immunogen

Amino acids PQATSCSFAQNIKE were used as the immunogen for this HOXA10 antibody.

Storage

Aliquot and store the HOXA10 antibody at -20oC.

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