Datasheet for ABIN1881429

anti-HOXC10 antibody (C-Term)

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Overview

Quantity:	400 µL
Target:	HOXC10
Binding Specificity:	AA 224-250, C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This HOXC10 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF)

Product Details

Immunogen:	This HOXC10 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 224-250 amino acids from the C-terminal region of human HOXC10.
Clone:	RB42429
Isotype:	Ig Fraction
Predicted Reactivity:	M
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

Target Details

Target:	HOXC10
Alternative Name:	HOXC10 (HOXC10 Products)

Target Details

Background:	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.
Molecular Weight:	38073
NCBI Accession:	NP_059105
UniProt:	Q9NYD6

Application Details

Application Notes:	IF: 1:10~50. WB: 1:1000
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Expiry Date:	6 months

Publications

Product cited in:	Hwang, Seok, Song, Jo, Lee: "HOXC10 as a potential marker for discriminating between amnion- and decidua-derived mesenchymal stem cells." in: **Cloning and stem cells**, Vol. 11, Issue 2, pp. 269-79, (2009) (PubMed). Zhai, Kuick, Nan, Ota, Weiss, Trimble, Fearon, Cho: "Gene expression analysis of preinvasive and invasive cervical squamous cell carcinomas identifies HOXC10 as a key mediator of invasion."

Publications

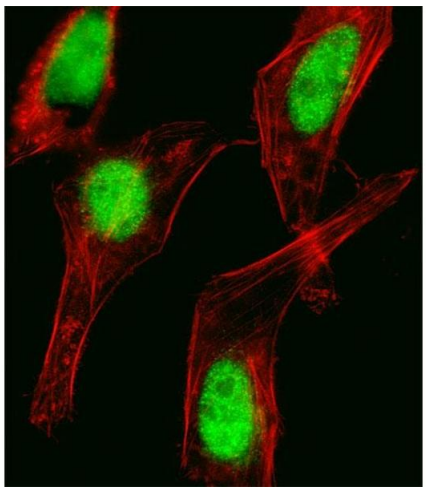
in: **Cancer research**, Vol. 67, Issue 21, pp. 10163-72, (2007) (PubMed).

Gabellini, Colaluca, Vodermaier, Biamonti, Giacca, Falaschi, Riva, Peverali: "Early mitotic degradation of the homeoprotein HOXC10 is potentially linked to cell cycle progression." in: **The EMBO journal**, Vol. 22, Issue 14, pp. 3715-24, (2003) (PubMed).

Kosaki, Kosaki, Suzuki, Yoshihashi, Takahashi, Sasaki, Tomita, McGinnis, Matsuo: "Complete mutation analysis panel of the 39 human HOX genes." in: **Teratology**, Vol. 65, Issue 2, pp. 50-62, (2002) (PubMed).

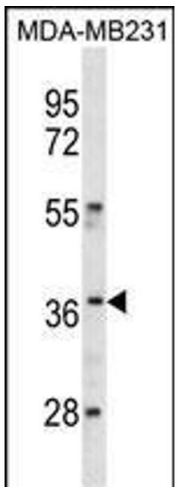
Sandrock, Egly: "A yeast four-hybrid system identifies Cdk-activating kinase as a regulator of the XPD helicase, a subunit of transcription factor IIH." in: **The Journal of biological chemistry**, Vol. 276, Issue 38, pp. 35328-33, (2001) (PubMed).

Images



Immunofluorescence

Image 1. Fluorescent image of Hela cell stained with HOXC10 Antibody (C-term) (ABIN1881429 and ABIN2838971). Hela cells were fixed with 4 % PFA (20 min), permeabilized with Triton X-100 (0.1 %, 10 min), then incubated with HOXC10 primary antibody (1:25, 1 h at 37 °C). For secondary antibody, Alexa Fluor® 488 conjugated donkey anti-rabbit antibody (green) was used (1:400, 50 min at 37 °C).Cytoplasmic actin was counterstained with Alexa Fluor® 555 (red) conjugated Phalloidin (7 units/mL, 1 h at 37 °C).HOXC10 immunoreactivity is localized to Nucleus significantly.



Western Blotting

Image 2. HOXC10 Antibody (C-term) (ABIN1881429 and ABIN2838971) western blot analysis in MDA-M cell line lysates (35 µg/lane).This demonstrates the HOXC10 antibody detected the HOXC10 protein (arrow).