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Datasheet for ABIN3031870 anti-MUC4 antibody (N-Term)

2 Images



Overview

Quantity:	0.4 mL
Target:	MUC4
Binding Specificity:	N-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MUC4 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA

Product Details

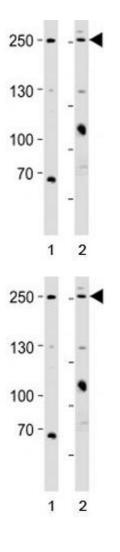
Immunogen:	This MUC4 antibody was produced from a rabbit immunized with a KLH conjugated synthetic peptide between 529-560 amino acids from the N-terminal region of human Mucin-4 alpha chain.
Isotype:	Ig Fraction
Purification:	Antigen affinity purified

Target Details

Target:	MUC4
Alternative Name:	Mucin-4 alpha chain / MUC4 (MUC4 Products)
Background:	May play a role in tumor progression. Ability to promote tumor growth may be mainly due to
	repression of apoptosis as opposed to proliferation. Has anti-adhesive properties. Seems to

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	alter cellular behavior through both anti-adhesive effects on cell-cell and cell-extracellular matrix
	interactions and in its ability to act as an intramembrane ligand for ERBB2. Plays an important
	role in cell proliferation and differentiation of epithelial cells by inducing specific
	phosphorylation of ERBB2. The MUC4-ERBB2 complex causes site-specific phosphorylation of
	the ERBB2 'Tyr-1248'. In polarized epithelilal cells segragates ERBB2 and other ERBB receptors
	and prevents ERBB2 from acting as a coreceptor. The interaction with ERBB2 leads to
	enhanced expression of CDKN1B. The formation of a MUC4-ERBB2-ERBB3-NRG1 complex
	leads to down-regulation of CDKN1B, resulting in repression of apoptosis and stimulation of
	proliferation.
UniProt:	Q99102
Pathways:	Regulation of Leukocyte Mediated Immunity
Application Details	
Application Notes:	Titration of the MUC4 antibody may be required due to differences in protocols and
	secondary/substrate sensitivity.\. Western blot: 1:1000
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	In 1X PBS, pH 7.4, with 0.09 % 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:	-20 °C
Storage Comment:	Aliquot the MUC4 antibody and store frozen at -20°C or colder. Avoid repeated freeze-thaw
	cycles.



Western Blotting

Image 1. Western blot analysis of lysate from 1) HeLa and2) MCF-7 cell line using MUC4 antibody

Western Blotting

Image 2. Western blot analysis of lysate from 1) HeLa and 2) MCF-7 cell line using MUC4 antibody; Ab was diluted at 1:1000 for each lane.

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