Datasheet for ABIN969496

anti-MTDH antibody

3 Images | 2 Publications

Go to Product page

Overview

Quantity:	100 µL
Target:	MTDH
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This MTDH antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA, Flow Cytometry (FACS)

Product Details

Immunogen:	Purified recombinant fragment of human Metadherin expressed in E. coli.
Clone:	2F11C3
Isotype:	IgG1
Purification:	purified

Target Details

Target:	MTDH
Alternative Name:	Metadherin (MTDH Products)
Background:	Description: Metadherin (Metastasis adhesion protein), also known as MTDH, LYsine-RIch CEACAM1 co-isolated (LYRIC), is a novel protein that localizes with the tight junction proteins ZO-1 and occludin in polarized epithelial cells. At the tight junction, it acts not as a structural component, but is rather recruited during the maturation of the tight junction complex.

Target Details

	Metadherin is overexpressed in breast cancer tissue and breast tumor xenografts, while much lower levels are expressed in normal breast tissue. Metadherin binds to lung vasculature, one of the four common sites of breast cancer metastasis, through a C-terminal segment in the extracellular domain, blocking this lung-homing domain with antibodies or inhibiting metadherin with siRNA has been reported to inhibit breast cancer metastasis. Aliases: 3D3, AEG1, LYRIC, MTDH
Molecular Weight:	64 kDa
Gene ID:	92140
HGNC:	92140
Pathways:	Cellular Response to Molecule of Bacterial Origin, Cell-Cell Junction Organization

Application Details

Application Notes:	ELISA: 1:10000, WB: 1:500 - 1:2000, IHC: 1:200 - 1:1000, FCM: 1:200 - 1:400
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Antibody are purified by protein G affinity chromatography. Liquid in PBS containing 50 % glycerol and 0.03 % 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
Storage Comment:	4°C, -20°C for long term storage

Publications

Product cited in:	Gertych, Oh, Wawrowsky, Weisenberger, Tajbakhsh: "3-D DNA methylation phenotypes correlate with cytotoxicity levels in prostate and liver cancer cell models." in: **BMC pharmacology & toxicology**, Vol. 14, pp. 11, (2013) (PubMed). Tajbakhsh: "Covisualization of methylcytosine, global DNA, and protein biomarkers for In Situ

Publications

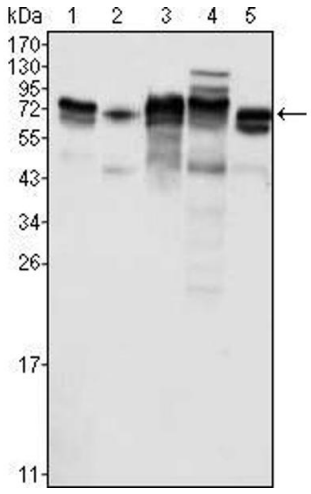
3D DNA methylation phenotyping of stem cells." in: **Methods in molecular biology (Clifton, N.J.)**, Vol. 1052, pp. 77-88, (2013) (PubMed).

Fukuda, Ichiyanagi, Yamada, Go, Udono, Wada, Maeda, Soejima, Saitou, Ito, Sasaki: "Regional DNA methylation differences between humans and chimpanzees are associated with genetic changes, transcriptional divergence and disease genes." in: **Journal of human genetics**, Vol. 58, Issue 7, pp. 446-54, (2013) (PubMed).

Kurita, Arai, Nakamoto, Kato, Niwa: "Determination of DNA methylation using electrochemiluminescence with surface accumulable coreactant." in: **Analytical chemistry**, Vol. 84, Issue 4, pp. 1799-803, (2012) (PubMed).

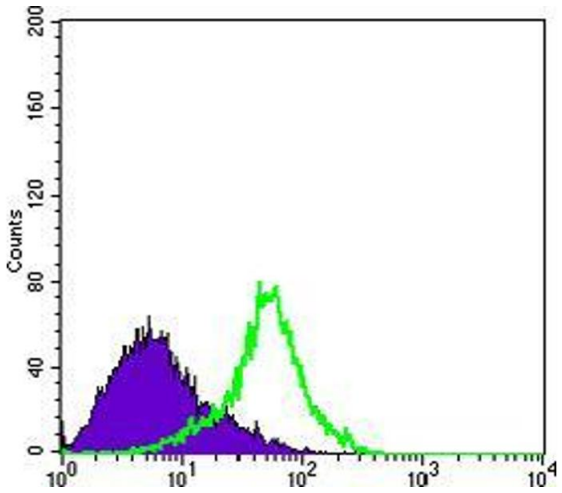
Kurita, Niwa: "DNA methylation analysis triggered by bulge specific immuno-recognition." in: **Analytical chemistry**, Vol. 84, Issue 17, pp. 7533-8, (2012) (PubMed).

Images



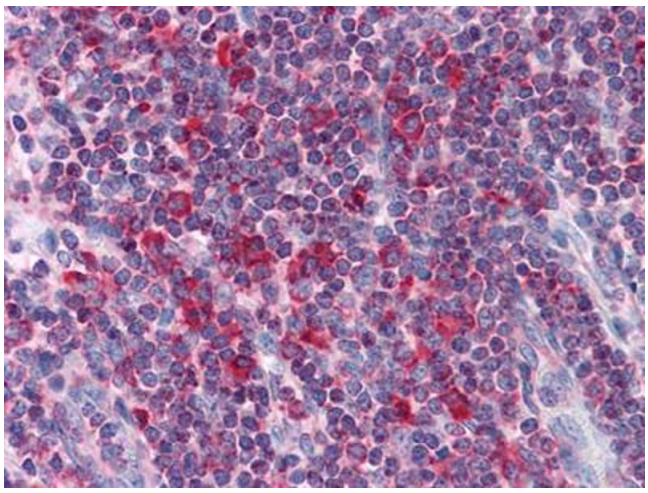
Western Blotting

Image 1. Western blot analysis using Metadherin mouse mAb against K562 (1), SKBR-3 (2), T47D (3), Hela (4) and MCF-7 (5) cell lysate.



Flow Cytometry

Image 2. Flow cytometric analysis of Hela cells using Metadherin mouse mAb (green) and negative control (purple).



Immunohistochemistry

Image 3. Immunohistochemical analysis of paraffin-embedded human Liver tissues using Metadherin mouse mAb