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Datasheet for ABIN6719350

anti-Olfactomedin 4 antibody (AA 91-510)

Overview

Quantity:	100 µg
Target:	Olfactomedin 4 (OLFM4)
Binding Specificity:	AA 91-510
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Olfactomedin 4 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA

Product Details

Purpose:	Anti-OLFM4 Antibody Picoband®
Immunogen:	E.coli-derived human OLFM4 recombinant protein (Position: D91-Q510).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-OLFM4 Antibody Picoband® (ABIN6719350). Tested in ELISA, IHC, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	Olfactomedin 4 (OLFM4)
Alternative Name:	OLFM4 (OLFM4 Products)
Background:	Synonyms: Olfactomedin-4, OLM4, Antiapoptotic protein GW112, G-CSF-stimulated clone 1 protein, hGC-1, hOLF4, OLFM4, GW112, UNQ362, PRO698 Tissue Specificity: Expressed during myeloid lineage development. Much higher expression in bone marrow neutrophils than in peripheral blood neutrophils (at protein level). Strongly expressed in the prostate, small intestine and colon and moderately expressed in the bone marrow and stomach. Overexpressed in some pancreatic cancer tissues. Background: Olfactomedin 4 is a protein that in humans is encoded by the OLFM4 gene. This gene was originally cloned from human myeloblasts and found to be selectively expressed in inflamed colonic epithelium. This gene encodes a member of the olfactomedin family. The encoded protein is an antiapoptotic factor that promotes tumor growth and is an extracellular matrix glycoprotein that facilitates cell adhesion.
Molecular Weight:	75 kDa
Gene ID:	10562

Application Details

Application Notes:	Western blot, 0.1-0.5 µg/mL Immunohistochemistry (Paraffin-embedded Section), 0.5-1 µg/mL ELISA, 0.1-0.5 µg/mL 1. Dassen H, Punyadeera C, Delvoux B, Schulkens I, Marchetti C, Kamps R, Klomp J, Dijcks F, de Goeij A, D'Hooghe T, Kyama C, Ederveen A, Dunselman G, Groothuis P, Romano A (2010). "Olfactomedin-4 regulation by estrogen in the human endometrium requires epidermal growth factor signaling". Am. J. Pathol. 177 (5): 2495-508. 2. van der Flier LG, Haegebarth A, Stange DE, van de Wetering M, Clevers H (2009). "OLFM4 is a robust marker for stem cells in human intestine and marks a subset of colorectal cancer cells".Gastroenterology. 137 (1): 15-7.
Comment:	Tested Species: In-house tested species with positive results. By Heat: Boiling the paraffin sections in 10mM citrate buffer, pH6.0, for 20mins is required for the staining of formalin/paraffin sections. Other applications have not been tested. Optimal dilutions should be determined by end users.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ , 0.05 mg 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:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.