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## Human Olfactomedin-4/OLFM4 Antibody

Monoclonal Mouse IgG<sub>1</sub> Clone # 806305 Catalog Number: MAB9218

## RDSYSTEMS

DESCRIPTION	
Species Reactivity	Human
Specificity	Detects human Olfactomedin-4/OLFM4 in direct ELISAs and Western blots.
Source	Monoclonal Mouse IgG <sub>1</sub> Clone # 806305
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant human Olfactomedin-4/OLFM4 Asp21-Gln510 Accession # Q6UX06
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 μm filtered solution in PBS.

### APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Western Blot	2 µg/mL	See Below
Immunocytochemistry	1-15 μg/mL	Immersion fixed Capan-1 human pancreatic adenocarcinoma cell line (Positive) and absent in U937 human histiocytic lymphoma cell line (Negative)

DATA



Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.	
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C	
Stability & Storage	<ul> <li>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</li> <li>12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>	

#### BACKGROUND

Olfactomedin-4 (OLFM4), previously called GC-1 (G-CSF-stimulated clone-1), GW112 or hOlfD, is a 64 kDa secreted glycoprotein that is a member of the Olfactomedin/Noelin family of proteins. Mature Olfactomedin-4 is a 490 amino acid (aa) protein that is secreted mainly as multimers. Human Olfactomedin-4 is mainly expressed by gastrointestinal stem cells, developing granulocytes, type M4 acute myelogenous leukemias, and intestinal and prostate cancer cells and is upregulated by NF-kB signaling. It is reported to facilitate cell-cell adhesion by binding to lectins and cadherins, and to be anti-apoptotic. Mature human Olfactomedin-4 shares 71% aa sequence identity with mouse and rat Olfactomedin-4.

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