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Datasheet for ABIN7520372
Olfactomedin 4 Protein (OLFM4) (His tag)

Overview

Quantity:	100 µg
Target:	Olfactomedin 4 (OLFM4)
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Olfactomedin 4 protein is labelled with His tag.

Product Details

Purpose:	Recombinant human Olfactomedin-4/OLFM4 Protein
Sequence:	DLGDVGPIIP SPGFSSFPGV DSSSSFSSSS RSGSSSSRSL GSGGSVSQLF SNFTGSVDDR GTCQCSVSLP DTTFPVDRVE RLEFTAHVLS QKFEKELSKV REYVQLISVY EKKLLNLTVR IDIMEKDTIS YTELDFELIK VEVKEMEKLIV IQLKESFGGS SEIVDQLEVE IRNMTLLVEK LETLDKNNVL AIRREIVALK TKLKECEASK DQNTPVVHPP PTPGSCGHGG VVNISKPSV QLNWRGFSYL YGAWGRDYSY QHPNKGLYWV APLNTDGRLL EYYRLYNTLD DLLLYINARE LRITYGQGSY TAVYNNMYV NMYNTGNIAR VNLTNTIAV TQTLPNAAAYN NRFSYANVAW QDIDFAVDEN GLWVIYSTEY STGNMVISKL NDTTLQVLNT WYTKQYKPSA SNAFMVCGVL YATRTMNTRT EEIFYYYDTN TGKEGKLDIV MHKMQEKVQS INYNPFDQKL YVYNDGYLLN YDLSVLQKPQ
Specificity:	Asp21-Gln510
Sterility:	0.22 µm filtered
Endotoxin Level:	<1EU/µg

Target Details

Target:	Olfactomedin 4 (OLFM4)
Alternative Name:	Olfactomedin-4/OLFM4 (OLFM4 Products)
Background:	<p>Description: Olfactomedin-4 (OLFM4), previously called GC-1 (G-CSF stimulated clone-1) is an secreted glycoprotein that is a member of the Olfactomedin/Noelin family of protein . It is expressed in epithelial cells of the prostate, small intestine, colon, bone marrow, and in several cancers , and is up-regulated in epithelial cells during inflammation . Mature OLFM4 is a 490 amino acid (aa) protein that is secreted mainly in a polymeric form which is held together by disulfide bonds and carbohydrate interactions . Mature human OLFM4 shares 71 % aa sequence identity with mature mouse and rat OLFM4. Olfactomedin-4 (OLFM4) interacts with cell surface lectins and cadherins, which helps cell adhesion and cell spreading of NIH3T3 and 293T/17 cells . OLFM4 plays a critical role in regulating progression of prostate cancer and is also novel biomarker for triple-negative breast cancer .</p> <p>Name: GC1, OLM4, OlfD, GW112, hGC-1, hOLfD, UNQ362, bA209J19.1</p>
Gene ID:	10562
UniProt:	Q6UX06

Application Details

Restrictions: For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1 % BSA, 5 % HSA, 10 % FBS or 5 % Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.
Concentration:	0.43 mg/mL
Buffer:	Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.
Storage:	-20 °C,-80 °C
Storage Comment:	Store the lyophilized protein at -20°C to -80°C for 12 months. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.