



## Rabbit Anti-OLFM4 antibody

SL6558R

<b>Product Name:</b>	OLFM4
<b>Chinese Name:</b>	抗Apoptosis蛋白OLFM44抗体
<b>Alias:</b>	Antiapoptotic protein GW112; G-CSF-stimulated clone 1 protein; GC1; GW112; hGC 1; hGC-1; hOLF <sub>D</sub> ; olfactomedin 4; Olfactomedin-4; Olf <sub>D</sub> ; OLFM4; OLFM4_HUMAN; OLM4.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Dog,Pig,Cow,Rabbit,
<b>Applications:</b>	WB=1:500-2000ELISA=1:500-1000IF=1:200-800 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	55kDa
<b>Cellular localization:</b>	cytoplasmicThe cell membraneExtracellular matrixSecretory protein
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human OLFM4:111-510/510
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	Olfactomedin-4, also known as G-CSF-stimulated clone 1 protein, Antiapoptotic protein GW112, and OLFM4, is a secreted protein which contains one olfactomedin-like domain. OLFM4 is expressed during myeloid lineage development. It is strongly expressed in the prostate, small intestine and colon and moderately expressed in the bone marrow and stomach. OLFM4 is highly expressed in pancreatic cancer tissues and shows an elevated expression level during the early S phase of the cell cycle. It is also

expressed at high levels in stomach cancer and colon cancer tissues. Inhibition of ROS or the ERK pathway remarkably decreased G-CSF-induced OLFM4 expression. OLFM4 is an antiapoptotic factor that promotes tumor growth. OLFM4 promotes proliferation of pancreatic cancer cells by favoring the transition from the S to G2/M phase. OLFM4 also facilitates cell adhesion. Induction of OLFM4 in cancer cells was reported to have a novel antiapoptotic action via binding to the potent apoptosis inducer GRIM-19. The human OLFM4 is also thought to be a useful marker for early myeloid development.

**Function:**

May promote proliferation of pancreatic cancer cells by favoring the transition from the S to G2/M phase. In myeloid leukemic cell lines, inhibits cell growth and induces cell differentiation and apoptosis. May play a role in the inhibition of EIF4EBP1 phosphorylation/deactivation. Facilitates cell adhesion, most probably through interaction with cell surface lectins and cadherin.

**Subunit:**

Homomultimer; disulfide-linked. Interacts with NDUFA13. Interacts with cell surface lectins (locutions ricinus communis agglutinin I, concanavalin-A and wheat germ agglutinin) and cadherin.

**Subcellular Location:**

Secreted, extracellular space. Mitochondrion. Note=Subcellular location is not clearly defined: has been shown to be secreted (PubMed:16566923), but also in the mitochondrion (PubMed:15059901 and PubMed:20724538), cytoplasm and plasma membrane (PubMed:20724538) and in the nucleus (PubMed:15059901).

**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.

**Post-translational modifications:**

N-glycosylated.

**Similarity:**

Contains 1 olfactomedin-like domain.

**SWISS:**

Q6UX06

**Gene ID:**

10562

**Database links:**

[Entrez Gene: 467367](#)Chimpanzee

[Entrez Gene: 515082](#)Cow

[Entrez Gene: 485470](#)Dog

[Entrez Gene: 10562](#)Human

[Entrez Gene: 380924](#)Mouse

[Entrez Gene: 290409](#)Rat

[Omim: 614061](#)Human

[SwissProt: Q6UX06](#)Human

[SwissProt: Q3UZZ4](#)Mouse

[Unigene: 508113](#)Human

[Unigene: 26456](#)Mouse

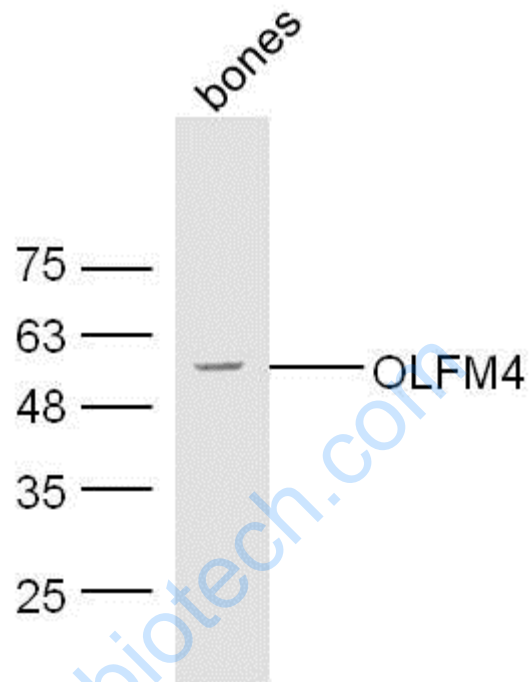
[Unigene: 156265](#)Rat

**Important Note:**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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Picture:



Sample: Bone (Mouse) Lysate at 40 ug

Primary: Anti-OLF4 (SL6558R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 55 kD

Observed band size: 55 kD