



## Rabbit Anti-Prominin 2 antibody

SL5814R

<b>Product Name:</b>	Prominin 2
<b>Chinese Name:</b>	造血Stem cells抗原CD133相关蛋白抗体
<b>Alias:</b>	hPROML2; PROM 2; PROM2; Prominin like protein 2; Prominin related protein; PROML2; PROM2 HUMAN.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Dog,Pig,
<b>Applications:</b>	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	89kDa
<b>Cellular localization:</b>	The cell membrane
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human Prominin 2:301-400/834<Extracellular>
<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>	Prominin 2 is a 112 kDa glycoprotein structurally related to Prominin 1 (CD133) although amino acid similarity is not more than 30%, but their genomic organization is strikingly similar. Like Prominin 1, the prominin 2 exhibit similar membrane topology with 5 trans-membrane domains and two large glycosylated extracellular domains. Similar to Prominin1 localization, the Prominin 2 is also associated with membrane

protrusions of the epithelial cells from adult kidney, and all along the digestive track and other epithelial tissues. Prominin 2 expression is down-regulated in aggressive prostate cancer cell lines and transient transfection of PROML2 expression vectors has been shown to induce apoptosis in cultured prostate cancer cells, suggesting a tumor suppressive role for Prominin 2. Prominin 2 expression is likely to be involved in growth suppression in the prostate, and down-regulation of Prominin 2 may disrupt normal prostatic homeostasis and lead to uncontrolled prostatic growth.

**Subunit:**

Binds cholesterol (By similarity).

**Subcellular Location:**

Apical cell membrane; Multi-pass membrane protein. Basolateral cell membrane; Multi-pass membrane protein. Cell projection, microvillus membrane; Multi-pass membrane protein. Cell projection, cilium membrane; Multi-pass membrane protein.

**Tissue Specificity:**

Present in saliva within small membrane particles (at protein level). Expressed in kidney, prostate, trachea, esophagus, salivary gland, thyroid gland, mammary gland adrenal gland, placenta, stomach, spinal cord and liver. In submucosal tumor, expressed in spindle-shaped or stellate stromal cells. Expressed in prostate cancer cell lines.

**Post-translational modifications:**

Glycosylated (By similarity).

**Similarity:**

Belongs to the prominin family.

**SWISS:**

Q8N271

**Gene ID:**

150696

**Database links:**

[Entrez Gene: 150696](#)Human

[Entrez Gene: 192212](#)Mouse

[Entrez Gene: 192211](#)Rat

[SwissProt: Q8N271](#)Human

[SwissProt: Q3UUY6](#)Mouse

[SwissProt: Q8CJ52](#)Rat

[Unigene: 469313](#)Human

[Unigene: 34171](#)Mouse

[Unigene: 82155](#)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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