

## Product datasheet for **CF809141**

### **Pepsinogen II (PGC) Mouse Monoclonal Antibody [Clone ID: OT11H5]**

#### **Product data:**

<b>Product Type:</b>	Primary Antibodies
<b>Clone Name:</b>	OT11H5
<b>Applications:</b>	LMNX
<b>Recommended Dilution:</b>	1:100 - 1:1000
<b>Reactivity:</b>	Human
<b>Host:</b>	Mouse
<b>Isotype:</b>	IgG1
<b>Clonality:</b>	Monoclonal
<b>Immunogen:</b>	Native Human Pepsinogen II protein
<b>Formulation:</b>	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
<b>Reconstitution Method:</b>	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
<b>Purification:</b>	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
<b>Conjugation:</b>	Unconjugated
<b>Storage:</b>	Store at -20°C as received.
<b>Stability:</b>	Stable for 12 months from date of receipt.
<b>Predicted Protein Size:</b>	40.5 kDa
<b>Gene Name:</b>	progastricsin
<b>Database Link:</b>	<a href="#">NP_002621</a> <a href="#">Entrez Gene 5225 Human P20142</a>



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**Background:**

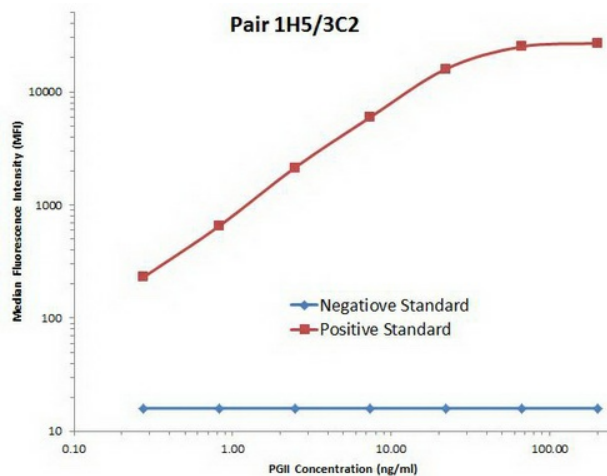
This gene encodes an aspartic proteinase that belongs to the peptidase family A1. The encoded protein is a digestive enzyme that is produced in the stomach and constitutes a major component of the gastric mucosa. This protein is also secreted into the serum. This protein is synthesized as an inactive zymogen that includes a highly basic prosegment. This enzyme is converted into its active mature form at low pH by sequential cleavage of the prosegment that is carried out by the enzyme itself. Polymorphisms in this gene are associated with susceptibility to gastric cancers. Serum levels of this enzyme are used as a biomarker for certain gastric diseases including Helicobacter pylori related gastritis. Alternate splicing results in multiple transcript variants. A pseudogene of this gene is found on chromosome 1. [provided by RefSeq, Oct 2009]

**Synonyms:**

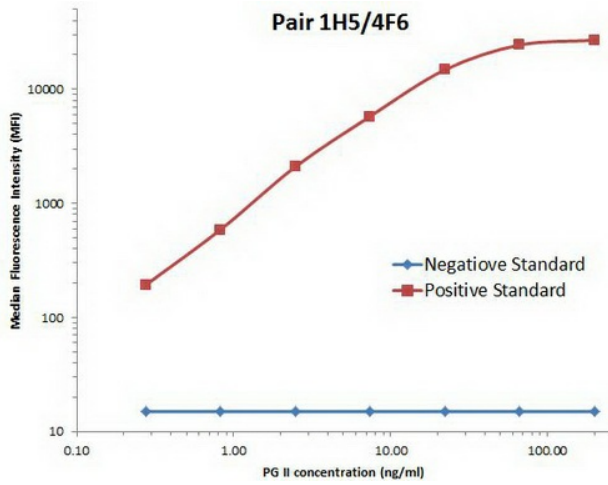
PEPC; PGII

**Protein Families:**

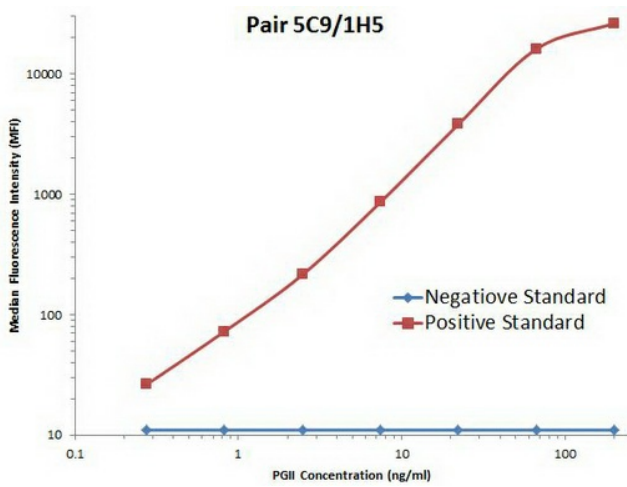
Protease, Secreted Protein

**Product images:**

PGII Luminex with 1H5 Capture ([TA809141]) and 3C2 Detection ([TA809534]) Antibodies. Substrate used: recombinant protein expressed in E.coli corresponding to amino acids 17-388 of human pepsinogen C (PG II).



PGII Luminex with 1H5 Capture ([TA809141]) and 4F6 Detection ([TA809595]) Antibodies. Substrate used: recombinant protein expressed in E.coli corresponding to amino acids 17-388 of human pepsinogen C (PG II).



PGII Luminex with 5C9 Capture ([TA809596]) and 1H5 Detection ([TA809141]) Antibodies. Substrate used: recombinant protein expressed in E.coli corresponding to amino acids 17-388 of human pepsinogen C (PG II).