

**Anti-OMP Picoband Antibody**  
**Catalog # ABO10212****Specification**

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**Anti-OMP Picoband Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">P47874</a>
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

**Description**

Rabbit IgG polyclonal antibody for Olfactory marker protein(OMP) detection. Tested with WB in Human;Mouse;Rat.

**Reconstitution**

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

**Anti-OMP Picoband Antibody - Additional Information**

**Gene ID** 4975

**Other Names**

Olfactory marker protein, Olfactory neuronal-specific protein, OMP

**Calculated MW**

18937 MW KDa

**Application Details**

Western blot, 0.1-0.5 µg/ml, Human, Mouse, Rat<br>

**Subcellular Localization**

Cytoplasm.

**Tissue Specificity**

Uniquely associated with mature olfactory receptor neurons.

**Protein Name**

Olfactory marker protein

**Contents**

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg Na<sub>3</sub>.

**Immunogen**

E.coli-derived human OMP recombinant protein (Position: R54-K137). Human OMP shares 91.7% amino acid (aa) sequence identity with both mouse and rat OMP.

**Purification**

Immunogen affinity purified.

**Cross Reactivity**

No cross reactivity with other proteins.

**Storage**

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

**Anti-OMP Picoband Antibody - Protein Information****Name** OMP**Function**

May act as a modulator of the olfactory signal-transduction cascade.

**Cellular Location**

Cytoplasm.

**Tissue Location**

Uniquely associated with mature olfactory receptor neurons

**Anti-OMP Picoband Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

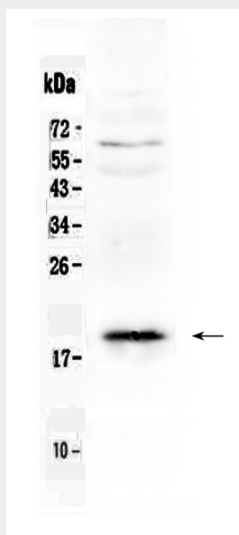
**Anti-OMP Picoband Antibody - Images**

Figure 1. Western blot analysis of OMP using anti- OMP antibody (ABO10212). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: 22RV1 whole cell lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti- OMP antigen affinity purified polyclonal antibody (Catalog # ABO10212) at 0.5 µg/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for OMP at approximately 19KD. The expected band size for OMP is at 19KD.

#### **Anti-OMP Picoband Antibody - Background**

Olfactory marker protein is uniquely associated with the mature olfactory receptor neurons in many vertebrate species from fish to man. The OMP gene structure and protein sequence are highly conserved between mouse, rat and human. Results of the mouse knockout studies show that OMP-null mice are compromised in their ability to respond to odor stimuli, and that OMP represents a novel modulatory component of the odor detection/signal transduction cascade.