

# Polyclonal Anti- OPCML Antibody

Catalog Number: PA1131

## Description

<b>Gene Name</b>	opioid binding protein/cell adhesion molecule-like
<b>Recommended Protein Name</b>	Opioid-binding protein/cell adhesion molecule
<b>Lot No.</b>	0111212043127
<b>Size</b>	100µg/vial
<b>Form</b>	lyophilized
<b>Ig type</b>	Rabbit IgG
<b>Specificity</b>	No cross reactivity with other proteins.
<b>Purification</b>	Immunogen affinity purified.
<b>Species</b>	<b>Reacts with:</b> human <b>Predicted to work with:</b> mouse, rat
<b>Immunogen</b>	A synthetic peptide corresponding to a sequence at the C-terminus of human OPCML(294-312aa YTCVATNKLGNASITLY), identical to the related rat and mouse sequences.
<b>Contents</b>	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05mg Thimerosal, 0.05mg NaN <sub>3</sub> .

## Application

	Concentration	Tested Species	Predicted Species	Antigen Retrieval
Western blot	0.1-0.5µg/ml	Hu	Ms, Rat	-
Immunohistochemistry (Paraffin-embedded Section)	0.5-1µg/ml	Hu	Ms, Rat	By Heat

**Tested Species:** In-house tested species with positive results.

**Predicted Species:** Species predicted to be fit for the product based on sequence similarities.

**By Heat: Boiling the paraffin sections in 10mM citrate buffer, pH6.0, for 20mins is required for the staining of formalin/paraffin sections.**

*Other applications have not been tested.*

*Optimal dilutions should be determined by end users.*

## Preparation and storage

**Reconstitution:** 0.2ml of distilled water will yield a concentration of 500µg/ml.

**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.

## Relevant detection systems

Boster provides a series of assays reacted with primary antibodies. Antibody can be supported by chemiluminescence kit EK1002 in WB, supported by SA1022 in IHC(P).

## Background

Opioid-binding protein/cell adhesion molecule-like (OPCML), (also called opioid-binding cell adhesion molecule (OBCAM)). OPCML is a member of the IgLON family of immunoglobulin (Ig) domain-containing glycosylphosphatidylinositol (GPI)-anchored cell adhesion molecules, as an excellent candidate for the 11q25 ovarian cancer TSG in EOC. The OPCML gene comprises 7 exons, spans approximately 600 kb, and is transcribed from telomere to centromere. And due to the lack of transmembrane domains necessary for signal transduction, it is improbable that OBCAM acts independently as an opioid receptor; more likely, it plays an important accessory role in opioid receptor function.

## Reference

1. Sellar, G. C.; Watt, K. P.; Rabiasz, G. J.; Stronach, E. A.; Li, L.; Miller, E. P.; Massie, C. E.; Miller, J.; Contreras-Moreira, B.; Scott, D.; Brown, I.; Williams, A. R.; Bates, P. A.; Smyth, J. F.; Gabra, H. : OPCML at 11q25 is epigenetically inactivated and has tumor-suppressor function in epithelial ovarian cancer. *Nature Genet.* 34: 337-343, 2003.
2. Shark, K. B.; Lee, N. M. : Cloning, sequencing and localization to chromosome 11 of a cDNA encoding a human opioid-binding cell adhesion molecule (OBCAM). *Gene* 155: 213-217, 1995.