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CD227
Purified Mouse Monoclonal Antibody
Catalog # AO2736a

Specification

CD227 - Product Information

Application	**WB, IHC, ICC, E**
Primary Accession	P15941
Reactivity	**Human**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**Mouse IgG1**
Calculated MW	**122.1kDa KDa**

Immunogen
Purified recombinant fragment of human CD227 (AA: extra 66-175) expressed in E. Coli.

Formulation
Purified antibody in PBS with 0.05% sodium azide

CD227 - Additional Information

Gene ID 4582

Other Names
MUC1; EMA; MCD; PEM; PUM; KL-6; MAM6; MCKD; PEMT; H23AG; MCKD1; MUC-1; ADMCKD; ADMCKD1; CA 15-3; MUC-1/X; MUC1/ZD; MUC-1/SEC

Dilution
WB~~ 1/500 - 1/2000
IHC~~ 1/200 - 1/1000
ICC~~N/A
E~~ 1/10000

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
CD227 is for research use only and not for use in diagnostic or therapeutic procedures.

CD227 - Protein Information

Name MUC1

Synonyms PUM

Function

The alpha subunit has cell adhesive properties. Can act both as an adhesion and an anti-adhesion protein. May provide a protective layer on epithelial cells against bacterial and enzyme attack.

Cellular Location
Apical cell membrane; Single-pass type I membrane protein. Note=Exclusively located in the apical domain of the plasma membrane of highly polarized epithelial cells After endocytosis, internalized and recycled to the cell membrane Located to microvilli and to the tips of long filopodial protusions [Isoform Y]: Secreted. [Mucin-1 subunit beta]: Cell membrane. Cytoplasm. Nucleus. Note=On EGF and PDGFRB stimulation, transported to the nucleus through interaction with CTNNB1, a process which is stimulated by phosphorylation. On HRG stimulation, colocalizes with JUP/gamma-catenin at the nucleus

Tissue Location
Expressed on the apical surface of epithelial cells, especially of airway passages, breast and uterus. Also expressed in activated and unactivated T-cells. Overexpressed in epithelial tumors, such as breast or ovarian cancer and also in non-epithelial tumor cells. Isoform Y is expressed in tumor cells only

CD227 - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

CD227 - Images

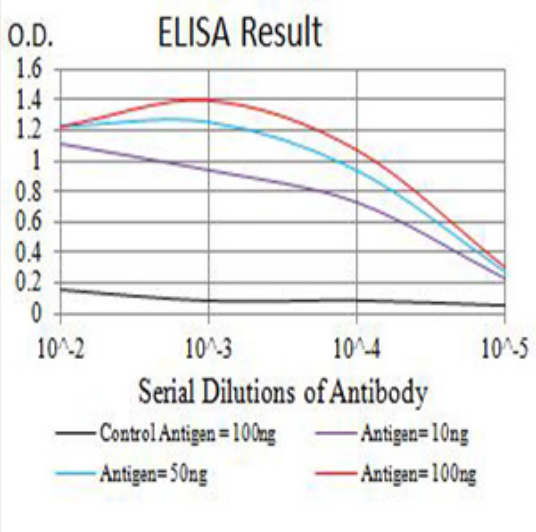

Figure 1:Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)

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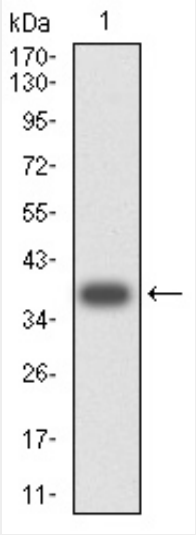


Figure 2:Western blot analysis using CD227 mAb against human CD227 (AA: extra 66-175) recombinant protein. (Expected MW is 38.5 kDa)

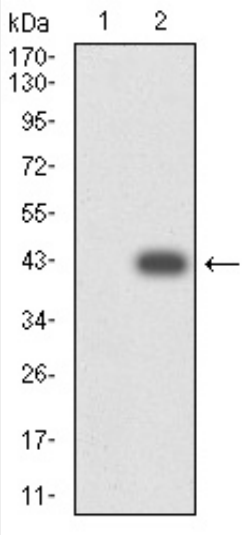


Figure 3:Western blot analysis using CD227 mAb against HEK293 (1) and CD227 (AA: extra 66-175)-hIgGFc transfected HEK293 (2) cell lysate.

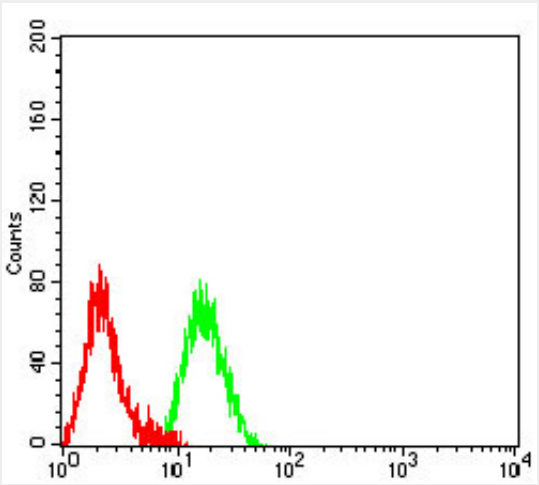


Figure 4:Flow cytometric analysis of Raji cells using CD227 mouse mAb (green) and negative

control (red).

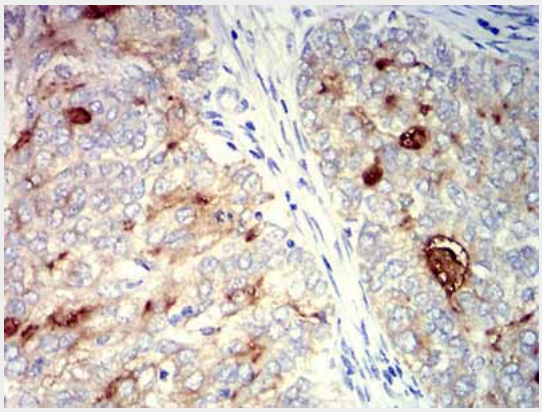
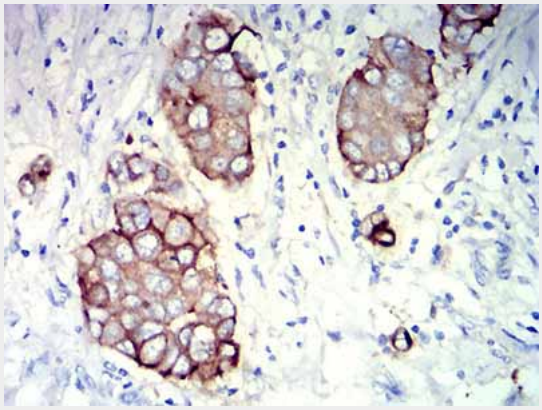


Figure 5:Immunohistochemical analysis of paraffin-embedded cervical cancer tissues using CD227 mouse mAb with DAB staining.



1/200 - 1/1000

CD227 - References

1.Pol J Pathol. 2016;67(4):384-391. 2.Blood. 2015 Jul 16;126(3):354-62.