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CD227

Purified Mouse Monoclonal Antibody
Catalog # AO2736a

Product Information

Application	WB, IHC, ICC, E
Primary Accession	P15941
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	3B10B4
Isotype	Mouse IgG1
Calculated MW	122102
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

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.

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

References

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

Images

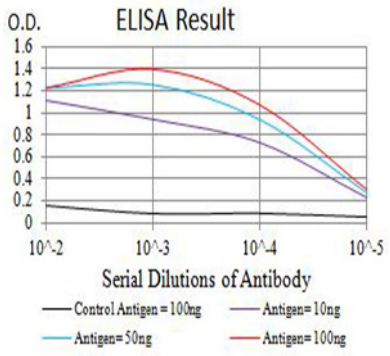


Figure 1:Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)

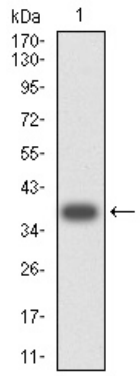


Figure 2:Western blot analysis using CD227 mAb against human CD227 (AA: extra 66-175) recombinant protein. (Expected MW is 38.5 kDa)

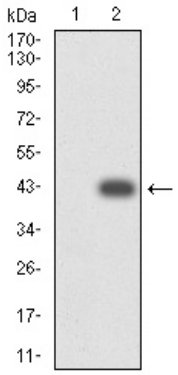


Figure 3:Western blot analysis using CD227 mAb against HEK293 (1) and CD227 (AA: extra 66-175)-hIgGFc transfected HEK293 (2) cell lysate.

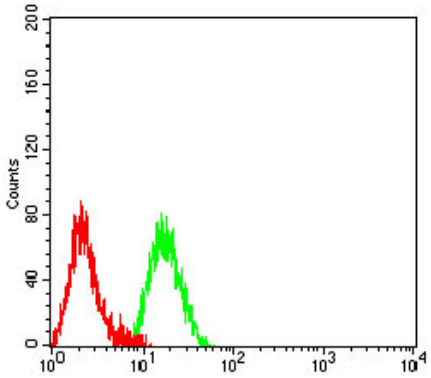


Figure 4:Flow cytometric analysis of Raji cells using CD227 mouse mAb (green) and negative control (red).

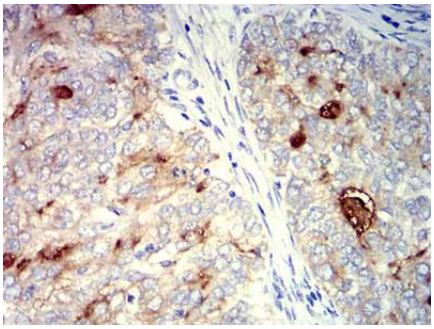
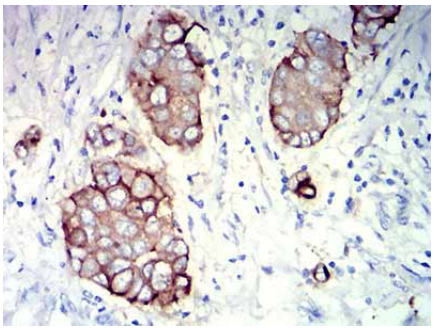


Figure 5:Immunohistochemical analysis of paraffin-embedded cervical cancer tissues using CD227 mouse mAb with DAB staining.



1/200 - 1/1000

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.