

Human Epithelial Membrane Antigen (EMA) ELISA Kit | EMA elisa kit

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CATALOG #
AAA331627

REACTIVITY
Human

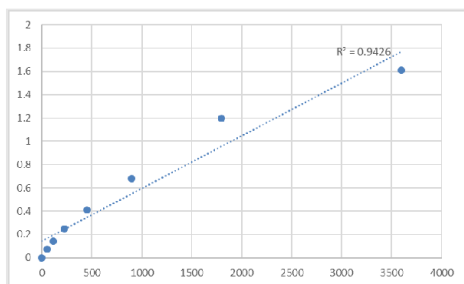
PRODUCT SYNONYMS

Epithelial Membrane Antigen (EMA); Human Epithelial Membrane Antigen (EMA) ELISA Kit; MUC1; RP11-263K19.2; CD227; EMA; H23AG; KL-6; MAM6; PEM; PEMT; PUM; DF3 antigen; H23 antigen; MUC-1/SEC; MUC-1/X; MUC1/ZD; breast carcinoma-associated antigen DF3; episialin; mucin 1; transmembrane; peanu; EMA elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Epithelial membrane antigen (EMA) ELISA Kit has high sensitivity and excellent specificity for detection of Human MUC1. No significant cross-reactivity or interference between Human MUC1 and analogues was observed.
Sequence Length	264
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

Fig.1. Human Epithelial membrane antigen (EMA) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for EMA elisa kit	Description: This Human Epithelial membrane antigen (EMA) ELISA Kit employs a two-site sandwich ELISA to quantitate MUC1 in samples. An antibody specific for MUC1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any MUC1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for MUC1 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of MUC1 bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: EMA encodes a membrane-bound protein that is a member of the mucin family. Mucins are O-glycosylated proteins that play an essential role in forming protective mucous barriers on epithelial surfaces. These proteins also play a role in intracellular signaling. Epithelial membrane antigen is expressed on the apical surface of epithelial cells that line the mucosal surfaces of many different tissues including lung, breast stomach and pancreas. Epithelial membrane antigen is proteolytically cleaved into alpha and beta subunits that form a heterodimeric complex. The N-terminal alpha subunit functions in cell-adhesion and the C-terminal beta subunit is involved in cell signaling. Overexpression, aberrant intracellular localization, and changes in glycosylation of this protein have been associated with carcinomas. EMA is known to contain a highly polymorphic variable number tandem repeats (VNTR) domain. Alternate splicing results in multiple transcript variants.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	67189007
NCBI GeneID	4582
NCBI Accession #	NP_001018016.1
NCBI GenBank Nucleotide #	NP_001018016.1
UniProt Accession #	P15941
NCBI Official Full Name	mucin-1 isoform 2
NCBI Official Synonym Full Names	mucin 1, cell surface associated
NCBI Official Symbol	MUC1
NCBI Official Synonym Symbols	EMA; MCD; PEM; PUM; KL-6; MAM6; MCKD; PEMT; CD227; H23AG; MCKD1; MUC-1; ADMCKD; ADMCKD1; CA 15-3; MUC-1/X; MUC1/ZD; MUC-1/SEC
NCBI Protein Information	mucin-1
UniProt Protein Name	Mucin-1
UniProt Gene Name	MUC1
UniProt Synonym Gene Names	PUM; MUC-1; CA 15-3; KL-6; PUM; PEM; EMA; MUC1-NT; MUC1-alpha; MUC1-beta
UniProt Entry Name	MUC1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.