

Mouse anti-Human PAPP-A/Pappalysin-1 Monoclonal Antibody | anti-PAPP-A antibody

PAPP-A/Pappalysin-1 (Marker of Atherosclerosis and Aneuploid Fetus)

CATALOG # AAA215121	HOST Mouse	REACTIVITY Human	APPLICATIONS Immunohistochemistry
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PRODUCT SYNONYMS

PAPP-A/Pappalysin-1; Monoclonal Antibody; PAPP-A/Pappalysin-1 (Marker of Atherosclerosis and Aneuploid Fetus); ASBAP2; Aspecific BCL2 ARE binding protein 2; Differentially placenta 1 expressed protein; DIPLA1; IGF-dependent; IGFBP4ase; Insulin-like growth factor-dependent IGF-binding protein 4 protease (IGFBP-4 protease); PAPA; PAPP A; PAPPA1; Pappalysin-1; Pregnancy Associated Plasma Protein A (PAPP-A); anti-PAPP-A antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG2b, kappa
Clone Number	PAPPA/2715
Specificity	Pregnancy Associated Plasma Protein (PAPP-A) is found in maternal blood that increases as pregnancy progresses, although it is not specific to pregnancy. It is principally expressed in the syncytiotrophoblast of the placenta, which forms the main source of circulating maternal PAPP-A. It cleaves insulin-like growth factor binding proteins (IGFBPs), IGFBP-4 and IGFBP-5. IGFBP-4 cleavage is enhanced significantly in the presence of bound IGF, whereas IGFBP-5 cleavage is inhibited slightly by IGF presence. It is thought to be involved in local proliferative processes such as wound healing and bone remodeling. Low plasma level of this protein has been suggested as a biochemical marker for pregnancies with aneuploid fetuses. PAPPA has also been suggested as a potential biomarker of acute myocardial infarction and Coronary Artery Disease (CAD).
Purity/Purification	Purified Ab with BSA and Azide at 200ug/ml OR Purified Ab WITHOUT BSA and Azide at 1.0mg/ml
Form/Format	200ug/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Sequence Length	1627
Applicable Applications for anti-PAPP-A antibody	IHC (Immunohistochemistry)
Positive Control	Placenta.
Immunogen	Recombinant fragment (within aa 351-523) of human PAPP-A protein (exact sequence is proprietary)
Cellular Localization	Secreted
Hu-chromosome Location	9q33.1
Preparation and Storage	Antibody with azide: store at 2 to 8 degree C. Antibody without azide: store at -20 to -80 degree C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

IMAGES



Application Data

Analysis of Protein Array containing more than 19,000 full-length human proteins using PAPP-A Mouse Monoclonal Antibody (PAPPA/2715) Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.



SDS-PAGE

SDS-PAGE Analysis Purified PAPP-A Mouse Monoclonal Antibody (PAPPA/2715). Confirmation of Purity and Integrity of Antibody.



IHC (Immunohistochemistry)

Formalin-fixed, paraffin-embedded human Placenta stained with PAPP-A Mouse Monoclonal Antibody (PAPPA/2715).



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Formalin-fixed, paraffin-embedded human Placenta stained with PAPP-A Mouse Monoclonal Antibody (PAPPA/2715).

ADDITIONAL INFORMATION

References	Gururajan, P. (2012). Indian Heart Journal 64(2), 141-145
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NCBI AND UNIPROT INFORMATION

NCBI GI #	223590248
NCBI GeneID	5069
UniProt Accession #	Q13219
Molecular Weight	181kDa
NCBI Official Full Name	Pappalysin-1
NCBI Official Synonym Full Names	pappalysin 1
NCBI Official Symbol	PAPPA
NCBI Official Synonym Symbols	PAPA; DIPLA1; PAPP-A; PAPPA1; ASBABP2; IGFBP-4ase
NCBI Protein Information	pappalysin-1
UniProt Protein Name	Pappalysin-1
UniProt Gene Name	PAPPA
UniProt Synonym Gene Names	IGF-dependent IGFBP-4 protease; IGFBP-4ase; PAPP-A
UniProt Entry Name	PAPP1_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.