ANTIBODYSHOP®

PRODUCT SPECIFICATION

Anti Pregnancy associated plasma protein A (human, PAPP-A) Mouse monoclonal antibody

Subclass: IgG_1/κ

PRODUCT NO. **ABS 006-24**

PRESENTATION

Preparation:	Protein-A/G purified
Content:	200 µL and 1 mL, 1 mg/mL
Solvent:	0.01 M phosphate buffer, pH 7.4, with 0.5 M NaCl and 15 mM sodium azide
Storage:	In the dark at 4-8ºC

ANTIGEN

Pregnancy-associated plasma protein-A (PAPP-A, Insulin-like growth factor binding protein-4 protease, PAPP-A-proMBP complex) is a large heterotetrameric glycoprotein of approximately 500 kDa, which was first discovered in serum from pregnant women. The hetreotetramer consists of two PAPP-A subunits and two proMBP subunits. Low maternal serum levels of PAPP-A in first trimester biochemical screening is used as a marker of Down's syndrome (trisomy 21).

IMMUNOGEN

Purified human PAPP-A

SPECIFICITY

ABS 006-24 is specific for native human PAPP-A. Heat and SDS denatured PAPP-A is also recognized, but not acid treated PAPP-A .

EPITOPE SPECIFICITY

The epitop of ABS 006-24 is different from BTE 004-09 and ABS 006-01. The epitope is located on the PAPP-A subunit of the heterotetramer.

REACTIVITY

In sandwich ELISA the optimal combination was BTE 004-09 as coating and biotinylated ABS 006-24 as detection.
ABS 006-24 detect only unreduced PAPP-A in Western Blotting.
ABS 006-24 give the strongest singal in IHC compared to ABS 006-01 and BTE 004-09.

CULTURE MEDIUM

RPMI 1640 with 10% fetal calf serum

FUSION PARTNER

X63-Ag8.653.

IMMUNIZATION

Female BALB/c mice immunized i.p. with immunogen adsorbed onto Al(OH)3

APPLICATION

Method	Usability	Dilution guideline	References
ELISA	Yes	1:8000	
Immunoblotting	Yes		
Immunohistochemistry	Yes		

The dilution guideline for ELISA is based on sandwich ELISA in combination with a polyclonal antibody against the antigen. Users should determin the optimal dilutions for their own purpose.

REFERENCES