



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

Subclass: IgG₁/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 4-8°C

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 heterotetramer 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 epitope 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 signal 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

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 determine the optimal dilutions for their own purpose.

REFERENCES

CONDITIONS

All products are supplied on the understanding that they are for in vitro use only. The information and product are offered without guarantee as the ultimate conditions of use are beyond our control. The animals from which this product was derived have not been exposed to or inoculated with any livestock or poultry disease agents exotic to the United States or Western Europe, and did not originate from facilities where work with exotic disease agents affecting livestock or avian species is carried out.