

PRODUCT INFORMATION SHEET

Mouse Monoclonal Antibody to PSA (KLK3)

Format: PURE RUO REF IQP-1152P Volume: 0.1ml

Description Ti

Clone 5A11E9,5A11E2 Mouse IgG1 **Isotype** PSA (KLK3) **Specificity**

Alternative names

APS; PSA; hK3; KLK2A1; KLK3

Species Human

Immunogen

Purified recombinant fragment of KLK3 (aa26-251) expressed in E. Coli.

Mw

Format Ascitic fluid containing 0.03% sodium azide.

Summary

Kallikrein-related peptidase 3. Kallikreins are a subgroup of serine proteases having diverse physiological functions. Growing evidence suggests that many kallikreins are implicated in carcinogenesis and some have potential as novel cancer and other disease biomarkers. This gene is one of the fifteen kallikrein subfamily members located in a cluster on chromosome 19. Its protein product is a protease present in seminal plasma. It is thought to function normally in the liquefaction of seminal coagulum, presumably by hydrolysis of the high molecular mass seminal vesicle protein. Serum level of this protein, called PSA in the clinical setting, is useful in the diagnosis and monitoring of prostatic carcinoma. Alternate splicing of this gene generates several transcript variants encoding different isoforms.

Applications Western Bloting: 1/500 - 1/2000.Immunohistochemistry: 1/200 - 1/1000.Flow cytometry: 1/200 -1/400.ELISA: Propose dilution 1/10000.Not yet tested in other applications. Determining optimal working dilutions by titration test.

Limitations

- 1. Conjugates with brighter fluorochromes, like PE and APC, will have a greater separation than those with dyes like FITC and CyQ. When populations overlap, the percentage of positive cells using a selected marker can be affected by the choice of fluorescent label.
- 2. Use of monoclonal antibodies in patient treatment can interfere with antigen target recognition by this reagent. This should be taken into account when samples are analyzed from patients treated in this fashion. IQ Products has not characterized the effect of the presence of therapeutic antibodies on the performance of this reagent.
- 3. Reagents can be used in different combinations, therefore laboratories need to become familiar performance characteristics of each antibody in relation with the combined markers in normal and abnormal samples.
- 4. Reagent data performance is based on EDTA-treated blood. Reagent performance can be affected by the use of other anticoagulants.

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Handling and Storage

Antibodies are supplied in 0.01 M sodium phosphate, 0.15 M NaCl; pH 7.3, 0.03% sodiumazide (NaN3) or as ascetic fluid containing 0.03% sodiumazide. Store the vials at 2-8 °C for a maximum of 2 weeks and store at -20°C for longer term storage. Monoclonal antibodies should be protected from prolonged exposure to light when conjugated with fluorochromes. Reagents are stable for the period shown on the vial label when stored properly.

Warranty

Products sold hereunder are warranted only to conform to the quantity and contents stated on the label at the time of delivery to the customer. There are no warranties, expressed or implied, which extend beyond the description on the label of the product. IQ Products is not liable for property damage, personal injury, or economic loss caused by the product.

Characterization

To ensure consistently high-quality reagents, each batch of monoclonal antibody is tested for conformance with characteristics of a standard reagent. Representative flow cytometric data is included in this data sheet.

Warning

All products contain sodiumazide. This chemical is poisonous and hazardous. Handling should be done by trained staff only.

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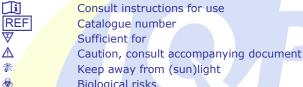
t fluorescence

References 1. Am J Surg Pathol. 2007 Sep;31(9):1351-5.

2. Chem Biol Drug Des. 2007 Sep;70(3):261-7.

Explanation of used symbols





Biological risks
Temperature limitation (°C)

RUO For Research Use Only
Batch code

Use by yyyy-mm-dd Manufacturer

Authorized Representative in the European Community Conformité Européenne (European Conformity)

P F R C	PURE FITC R-PE CyQ	Label - tandem purified material FITC PE PE-Cy5.18	Ex -max (nm) - 488 488, 532 488, 532	Em -max (nm) - 519 578 667
A	APC		595, 633, 635, 647	660
PC	PerCP		488, 532	678
PCC	PerCP-Cy5.5		488, 532	695

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