

Product datasheet for **BM695**

Prostate Specific Antigen (KLK3) Mouse Monoclonal Antibody [Clone ID: 214]

Product data:

Product Type:	Primary Antibodies
Clone Name:	214
Applications:	ELISA
Recommended Dilution:	ELISA: This antibody can be used as a Coating antibody in a two site assay with Catalogue Number BM696 as the detection reagent.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Highly pure PSA from Human Prostate.
Specificity:	This antibody is specific for Prostate Specific Antigen, recognising both the <i>free</i> and <i>complexed</i> forms
Formulation:	PBS, pH 7.0 State: Purified State: Liquid purified IgG fraction Preservative: 0.09% Sodium Azide
Concentration:	lot specific
Purification:	Affinity Chromatography on Protein A
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	kallikrein related peptidase 3
Database Link:	Entrez Gene 354 Human P07288



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Background:

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 two transcript variants encoding different isoforms. Additional transcript variants have been described, but it is unclear if these transcripts are normally expressed or if they are specific to benign or malignant tumors.

Synonyms:

Prostate-specific antigen, Semenogelase, Gamma-seminoprotein, P-30 antigen