

Product datasheet for **AP33051SU-N**

Kininogen 1 (KNG1) Goat Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ID, IP
Recommended Dilution:	In precipitating techniques as immunoelectrophoresis and single or double radial immunodiffusion and electroimmunodiffusion (Laurell), to identify the presence of kininogen in human plasma or other body fluids or to determine its concentration. For electroimmunodiffusion a concentration of 1-2% of antiserum in the gel is recommended. For electroimmunodiffusion a concentration of 1-2% of antiserum in the gel is recommended. <i>Precipitin titre:</i> not less than 1/32 when tested against normal Human plasma in agarblock immunodiffusion titration.
Reactivity:	Human
Host:	Goat
Clonality:	Polyclonal
Immunogen:	Purified Kininogen from pooled Human plasma is used for the immunization. Freund's complete adjuvant is used in the first step of the immunization procedure.
Specificity:	The heavy chains in HMWK and LMWK share immunologic determinants, but they have no procoagulant activities. The light chain of HMWK is unique to this molecule and carries the entire procoagulant activity of the molecule. The antiserum does not distinct between different forms of kininogen. The presence of non-precipitating antibodies has not been assayed. If the antiserum is to be used in non-precipitating antibody-binding assays (immunocytochemical, immunohistochemical, solid phase procedures such as ELISA) proper controls should be included. No reaction is obtained with any other plasma protein component or serum. Cross-reactivity: The antiserum does not cross react with any other component of human plasma. Inter-species crossreactivity is a normal feature of antibodies to plasma proteins since they frequently share antigenic determinants. Cross-reactivity of this antiserum has not been tested in detail.
Formulation:	State: Serum State: Lyophilized, Delipidated, Heat inactivated, Stable Whole Serum without preservatives
Reconstitution Method:	Restore by adding 1 ml of sterile distilled water.



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Concentration:	Total protein and IgG concentrations in the antiserum are comparable to those of pooled normal goat serum. No foreign proteins added.
Conjugation:	Unconjugated
Storage:	Store lyophilized at 2-8°C for 6 months or at -20°C long term. After reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C long term. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	kininogen 1
Database Link:	Entrez Gene 3827 Human P01042
Background:	Human plasma contains at least two distinct forms of kininogen, the carrier molecule of bradykinin, which can be distinguished by their physical, chemical and immunochemical properties. They are designated high-molecular-weight kininogen (HMWK) and low-molecular weight kininogen (LMWK). HMWK (MW 110,000) and LMWK (MW 50,000) both liberate bradykinin following the action of kallikrein. HMWK circulates as a non-enzymatic factor that is central to contact activation reactions. LMWK plays no known role in the activation of coagulation. Normal adult plasma levels are 7 mg/100 ml for HMWK as determined by electroimmunodiffusion and 9 mg/100 ml based on haemagglutination inhibition assays and RIA. Low plasma kininogen levels are seen in newborn and pre-term infants. HMWK is absent in congenital kininogen deficiency of the named affected families Fitzgerald and Reid; Williams and Flaujeac lack both HMWK and LMWK. The condition is associated with the decreased fibrinolytic activity and kinin formation but is asymptomatic.
Synonyms:	Fitzgerald factor, KNG1, BDK, KNG
Note:	Adsorption: Immunoaffinity adsorbed using insolubilized antigens as required, to eliminate antibodies reacting with other plasma proteins. The use of insolubilized adsorption antigens prevents the presence of excess adsorbent protein or immune complexes in the antiserum.
Protein Families:	Druggable Genome, Secreted Protein
Protein Pathways:	Complement and coagulation cascades