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SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 



Rabbit anti Human beta-2 microglobulin

Catalogue number: **RAHu/B2mg**

Clone	Polyclonal
Product Type	Primary Antibodies
Units	1 ml
Host	Rabbit
Species reactivity	Human
Application	Immunoprecipitation

Background

The defined antibody reactivity is restricted to beta-2 microglobulin as tested at the level of sensitivity of immunoprecipitation techniques. A single precipitin line is obtained with foetal serum, colostrum and selected pathological plasma and urine containing high levels of beta-2 microglobulin in bidimensional electrophoresis, immunoelectrophoresis and double radial immunodiffusion (Ouchterlony) which shows a reaction of full identity with the purified immunogen. In precipitating techniques as immunoelectrophoresis, single and double radial immunodiffusion (Mancini, Ouchterlony) to identify the presence of beta-2 microglobulin and to determine its concentration. The presence of non-precipitating antibodies has not been assayed. It does not exclude the use of the antiserum in non-precipitating techniques if proper controls are included.

Source

Beta-2 microglobulin is a member of the Immunoglobulin superfamily. The amino acid sequence resembles that of immunoglobulin constant domains. It is isolated from urine of patients with impaired reabsorption in the kidney tubules. High levels of beta-2 microglobulin are as present in cord blood serum and foetal serum. The host animal is immunised with highly purified beta-2 microglobulin. Freund's complete adjuvant is used in the first step of the immunization procedure.

Product

Delipidated, heat inactivated, lyophilized, stable whole serum. No preservative added. Total protein and IgG concentrations in the antiserum are comparable to those of pooled normal rabbit serum. No foreign proteins added.

Applications

Distributors

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Immunoprecipitation. In immunoelectrophoresis use 2 µl serum, plasma or equivalent against 120 µl antiserum. In double radial immunodiffusion (Ouchterlony) use a rosette arrangement with 10 µl antiserum in a 3 mm diameter centre well and 2 µl serum samples (neat and serially diluted) in 2 mm diameter peripheral wells. In single radial immunodiffusion and electroimmunodiffusion use 0.5 to 1.0 percent antiserum in the agar gel.

Cross Reactivity

The antiSerum does not cross-react with any other Human plasma proteins as tested in gel-diffusion techniques. Inter-species cross-reactivity is a normal feature of antibodies to plasma proteins, since homologous proteins of different species frequently share antigenic determinants. Cross-reactivity of this antiSerum has not been tested in detail

Specificity

Precipitating polyclonal Rabbit antiSerum to Human beta-2 microglobulin.

Storage

The lyophilized antiserum is shipped at ambient temperature and may be stored at +4°C; prolonged storage at or below -20°C. Reconstitute the lyophilized antiserum by adding 1 ml sterile distilled water. Dilutions may be prepared by adding phosphate buffered saline (PBS, pH 7.2). Repeated thawing and freezing should be avoided. If a slight precipitation occurs upon storage, this should be removed by centrifugation. It will not affect the performance of the antiserum. Diluted antiserum should be stored at +4°C, not refrozen, and preferably used the same day. Lyophilized at +4°C--at least 10 years. Reconstituted at or below -20°C--3-5 years. Reconstituted at +4°C--7 days.

Caution

This product is intended FOR RESEARCH USE ONLY, and FOR TESTS IN VITRO, not for use in diagnostic or therapeutic procedures involving humans or animals. This datasheet is as accurate as reasonably achievable, but Nordic-MUbio accepts no liability for any inaccuracies or omissions in this information.