Prostate-Specific Gene-1 Human, Rabbit Polyclonal Antibody

Product Data Sheet

Source of Antigen: *E. coli*
Host: Rabbit

Cat. No.:
RD181061100 (0.1 mg)

Other names: HPG-1

Research topic
Oncology

Preparation
The antibody was raised in rabbits by immunization with the recombinant HPG-1.

Amino Acid Sequence
The immunization antigen (16 kDa) is a protein containing 136 AA of recombinant HPG-1. N-Terminal His-tag, 9 extra AA (highlighted).

MKHHHHHHHHM IKKNLKKLGI EETYLNIIKA IYDRPTASIQ KTENLSTKTG TSQEYHLSPL WFYIVLEILA STIRQEKNLK DIHTEKEEVK LSLFADAMIL YLKKPNDSTR KLLELIKKIH SSCRIKINIH FAFCSQ

Species Reactivity
Human
Not yet tested in other species.

Purification Method
Immunoaffinity chromatography on a column with immobilized recombinant HPG-1.

Antibody Content
0.1 mg (determined by BCA method, BSA was used as a standard)

Formulation
The antibody is lyophilized in 0.05 M phosphate buffer, 0.1 M NaCl, pH 7.2. **AZIDE FREE**.

Reconstitution
Add 0.1 ml of deionized water and let the lyophilized pellet dissolve completely. Slight turbidity may occur after reconstitution, which does not affect activity of the antibody. In this case clarify the solution by centrifugation.

Storage/Stability
The lyophilized antibody remains stable and fully active until the expiry date when stored at -20°C. Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles and store frozen at -80°C. Reconstituted antibody can be stored at 4°C for a limited period of time; it does not show decline in activity after one week at 4°C.

Expiration
See vial label.

Lot Number
See vial label.

Quality Control Test
Indirect ELISA - to determine titer of the antibody
SDS PAGE - to determine purity of the antibody

Applications
Western blotting

Introduction to the Molecule

Human Prostate-Specific Gene-1 (HPG-1) product is a recently discovered membrane-anchored protein of approximately 15 kD. It was detected exclusively in the prostate (19 different tissues were tested). Antisense-oligonicleotide inhibition of HPG-1 expression inhibited the growth of one prostate cancer cell line (LNCaP) significantly (86%). HPG-1 might be a novel diagnostic and/or therapeutic target.

Note

This product is for research use only.

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