



Monoclonal Anti-PR3 Antibody

Catalogue Number: MAB1021

ORDERING INFORMATION

Clone: #27

Lot Number: LSY000-0001

Size: 100 µg

Formulation: Lyophilized powder

Storage: -20°C

Reconstitution: sterile PBS

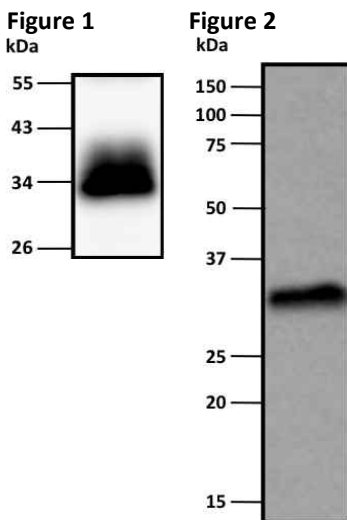
Specificity: human PR3, mouse PR3

Immunogen: *E.coli*-derived rhPR3

Ig class: mouse IgG

Recommended Applications:

WB



Detection of PR3 with mouse anti-PR3 monoclonal antibody.

A lysate was prepared from HL-60 human promyelocytic leukemia cells(Fig. 1) and a supernatant was prepared from cultured CHO-mouse PR3 transfectant(Fig. 2) in reduced condition.

Specifications and Use

Preparation

- This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a mouse immunized with purified, *E.coli*-derived, recombinant human PR3(rhPR3). The IgG fraction of the tissue culture supernatant was purified by affinity chromatography.

Endotoxin level

- < 1.0 EU per 1 µg of the protein as determined by LAL method.

Formulation

- Supplied as lyophilized powder.
- Reconstitute in sterile PBS.
- Centrifuge the vial before opening to prevent loss of the powder.

Storage

- Samples are stable up to 1 year from date of receipt at -20°C.
- Upon thawing, this protein can be stored under sterile conditions at 2 ~ 8°C for two weeks or at -70°C in a manual defrost freezer for three months without detectable loss of activity.
- Avoid repeated freeze-thaw cycles. Samples are recommended to be aliquot in small volumes and frozen for multiple uses.

Specificity

- This antibody was selected for its ability to recognize human PR3 and mouse PR3 in reduced or non-reduced condition

Application

- WB

Background

- The major features of Wegener granulomatosis are necrotizing granulomatous lesions, which most often affect the upper and lower airways and are associated with vasculitis, necrotizing glomerulonephritis and pulmonary capillaritis. The antigen responsible for this disease is Proteinase-3 (PR3, P29 or myeloblastin), which is one of the antibiotic proteins of neutrophilic granules belonging to the serine protease family. It is closely related to two others: neutrophil elastase and azurocidin. All three genes are expressed coordinately and their protein products are packaged together into azurophil granules during neutrophil differentiation. PR3 is a 29 kDa neutrophil protein which is able to cleave elastin and is involved in proliferation of human leukemia cells. PR3 is expressed specifically in immature myeloid cells and is a G-CSF- responsive protein critical to factor-independent growth. The genes for all three of the related serine protease family members are located in a cluster on the tip of the short arm of human chromosome 19

FOR RESEARCH USE ONLY. NOT FOR USE IN HUMANS.

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