

GP2

Antigen Specification

Product Number: 19600

Description:

Human GP2.
Recombinant antigen for in vitro research and manufacturing use only.

Immunological function:

Binds IgM- and IgG-type human auto-antibodies.

Origin:

Recombinant. Expressed by recombinant baculovirus (*Autographa californica* multiple nuclear polyhedrosis virus; AcMNPV) infection of *Spodoptera frugiperda* Sf9 insect cells.

Expression construct:

cDNA coding for the free form of the human pancreatic secretory granule membrane major glycoprotein/GP2 protein fused to a deca-histidine purification tag.

Biochemical tests:

SDS-PAGE (purity > 80%); Western blot with monoclonal anti-GP2 antibody.

Calculated molecular weight:

55 kDa (protein component excluding glycosylation; observed molecular weight approx. 68 kDa).

Calculated isoelectric point:

pH 5.4

Immunological tests/Functionality:

Standard ELISA test (checkerboard analysis of positive/negative samples).

Recommended buffer/storage and handling conditions:

Recommendations for storage buffer: neutral to slightly alkaline pH and 20% glycerol as cryoprotective agent.
Storage conditions: -70°C or below.
Repeated freeze/thaw cycles should be avoided.

Coating concentration:

0.5-0.9 µg/mL (depending on the type of ELISA plate and coating buffer).
Suitable for labeling of functional groups.

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