

GP2

Antigen Specification

Product Number: 19600

Description:

Human GP2.
Recombinant antigen for research use
or manufacturing 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 i: monoclonal anti-GP2
antibodies; ii: monoclonal anti-hexa-
His-tag antibody.

Calculated molecular weight:

54,909 Dalton (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 sera
panels).

**Recommended buffer/storage and
handling conditions:**

Recommendations for storage buffer:
ionic strength between 50 and 150 mM
salt, 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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