

## 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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