

## IA-2 (ICA 512)

### Antigen Specification

**Product Number: 30500**

**Description:**

Human insulinoma-associated protein IA-2 (ICA 512), also known as receptor-type tyrosine-protein phosphatase-like N (PTPRN). Recombinant antigen for in vitro research and manufacturing use only.

**Immunological function:**

Binds 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 amino acids 603 to 979 of human IA-2 (ICA 512) fused to a hexa-histidine purification tag. This corresponds to the intracellular region of ICA 512 and contains the sequence of the tryptic protein fragment originally defined as IA-2 autoantigen.

**Biochemical tests:**

SDS-PAGE (purity > 80%); Western blot with patient sample.

**Calculated molecular weight:**

45 kDa

**Calculated isoelectric point:**

pH 6.2

**Immunological tests/Functionality:**

Immunodot analyses of positive/negative patient 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.

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