

## Histidyl-tRNA Synthetase (Jo-1)

### Antigen Specification

**Product Number: 12900**

**Description:**

Human histidyl-tRNA synthetase (EC 6.1.1.21; Jo-1).  
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:**

Full-length cDNA coding for the human histidyl-tRNA synthetase (Jo-1) fused to a hexa-histidine purification tag.

**Biochemical tests:**

SDS-PAGE (purity > 90%); Western blot with i: anti-Jo-1 autoantibody-positive sample; ii: monoclonal anti-His-tag antibody.

**Calculated molecular weight:**

58 kDa

**Calculated isoelectric point:**

pH 5.9

**Immunological tests/Functionality:**

Standard ELISA test (checkerboard analysis of positive/negative samples, including CDC international reference sera); line assay and immunodot analyses with 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:**

0.2-0.4 µg/mL (depending on the type of ELISA plate and coating buffer).  
Suitable for labeling of functional groups.

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