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# HAV P2C-P3A

**Description:**The E.Coli derived recombinant protein contains the P2C-P3A immunodominant regions, amino acids 1392-1521.

**Catalog #:**HAPS-273

**Source:**Escherichia Coli.

For research use only.

**Purity:**HAV P2C-P3A protein is >90% pure as determined by 10% PAGE (coomassie staining).

**Purification Method:**
HAV P2C-P3A protein was purified by proprietary chromatographic technique.

**Specificty:**
Immunoreactive with sera HAV-infected individuals.

**Formulation:**
10mM CBB, pH9.6, 0.1% SDS and 50% glycerol.

**Usage:**
NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drµgs, agricultural or pesticidal products, food additives or household chemicals.

**Applications:**
HAV P2C-P3A antigen is suitable for ELISA and Western blots, excellent antigen for detection of HAV with minimal specificity problems.

**Introduction:**
Forty-two antigenic domains were identified across the hepatitis A virus (HAV) polyprotein by using a set of 237 overlapping 20-mer synthetic peptides spanning the entire HAV polyprotein. Nineteen antigenic domains were found within the structural proteins, and 22 were found within the nonstructural proteins, with 1 domain spanning the junction of VP1 and P2A proteins. Five of these domains were considered immunodominant, as judged by both the breadth and the strength of their immunoreactivity. One domain is located within the VP2 protein at position 57-90 aa. A second domain, located at position 767-842 aa, contains the C-terminal part of the VP1 protein and the entire P2A protein. A third domain, located at position 1403-1456 aa, comprises the C-terminal part of the P2C protein and the N-terminal half of the P3A protein. The fourth domain, located at position 1500-1519 aa, includes almost the entire P3B, and the last domain, located at position 1719-1764 aa, contains the C-terminal region of the P3C protein and the N-terminal region of the P3D protein. Four of the five most immunoreactive domains are derived from small HAV proteins and/or encompass protein cleavage sites separating different HAV proteins.

**Storage:**
HAV P2C-P3A protein althoµgh stable at 4°C for 1 week, should be stored below -18°C. Please prevent freeze thaw cycles.

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