

肠道病毒 71 型手足口病病毒抗体

产品货号: mIR0852

英文名称: EV71 polyprotein VP4

中文名称: 肠道病毒 71 型/手足口病病毒抗体

别 名: EV71; Enterovirus 71; VP4 [Human enterovirus 71]; polyprotein; VP4 capsid protein; capsid protein;

polyprotein VP0.

研究领域: 细胞生物 免疫学 细菌及病毒

抗体来源: Rabbit

克隆类型: Polyclonal

交叉反应 : EV71

产品应用 : ELISA=1:500-1000 IHC-P=1:400-800 IHC-F=1:400-800 ICC=1:100-500 IF=1:100-500 (石蜡切片需

做抗原修复)

not yet tested in other applications.

optimal dilutions/concentrations should be determined by the end user.

分子量: 7.6kDa

性 状: Lyophilized or Liquid

浓 度: 1mg/ml

免疫原: KLH conjugated synthetic peptide derived from EV71 Polyprotein VP4:1-69/2193

亚 型: lgG

纯化方法: affinity purified by Protein A



储存液: 0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.

保存条件: Store at -20 ° C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20° C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 ° C.

PubMed: PubMed

产品介绍: Enteroviruses, such as enterovirus 71, are classified to be in the picornavirus family, pico [small] + RNA [ribonucleic acid] + virus. Picornaviruses are among the smallest and simplest ribonucleic acid containing viruses known (1). The RNA for many enteroviruses have now been cloned and complete genomic sequences have been obtained. The RNA from all sequenced enteroviruses are similar in length, about 7400 nucleotides, and have identical organization (1). The human alimentary tract is the predominant site of enterovirus replication and these viruses were first isolated from enteric specimens. These viruses are the cause of paralytic poliomyelitis, aseptic meningitis-encephalitis, myocarditis, pleurodynia, hand-foot-and-mouth disease, conjunctivitis, and numerous other syndromes associated with extra-intestinal target organs. There are 67 numbered types of enteroviruses in the enterovirus family (1): three polioviruses, twenty-three coxsackieviruses A, six coxsackieviruses B, thirty-one echoviruses, and four other enteroviruses.

Function:

Protein VP1: Forms, together with VP2 and VP3, an icosahedral capsid (pseudo T=3), 300 Angstroms in diameter, composed of 60 copies of each capsid protein and enclosing the viral positive strand RNA genome. Protein VP1 mainly forms the vertices of the capsid. VP1 interacts with host cell receptor to provide virion attachment to target cell. After binding to its receptor, the capsid undergoes conformational changes. VP1 N-terminus (that contains an amphipathic alpha-helix) is externalized, VP4 is released and together, they shape a virion-cell connecting channel and a pore in the host membrane through which RNase-protected transfer of the viral genome takes place. After genome has been released, the channel shrinks.

Protein VP2: Forms, together with VP1 and VP3, an icosahedral capsid (pseudo T=3), 300 Angstroms in diameter, composed of 60 copies of each capsid protein and

Protein VP3: Forms, together with VP1 and VP2, an icosahedral capsid (pseudo T=3), 300 Angstroms in diameter, composed of 60 copies of each capsid protein and enclosing the viral positive strand RNA genome.

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Protein VP4: Lies on the inner surface of the capsid shell. After binding to the host receptor, the capsid

undergoes conformational changes. VP4 is released, VP1 N-terminus is externalized, and together, they shape a

virion-cell connecting channel and a pore in the host membrane through which RNase-protected transfer of the

viral genome takes place. After genome has been released, the channel shrinks.

Protein VPO: Protein VPO: VPO precursor is a component of immature procapsids, which gives rise to VP4 and VP2

afer maturation. Allows the capsid to remain inactive before the maturation step.

Protease 2A: cysteine protease that is responsible for the cleavage between the P1 and P2 regions. It cleaves the

host translation initiation factor EIF4G1, in order to shut off the capped cellular mRNA transcription (By

similarity).

Protein 2B: Affects membrane integrity and cause an increase in membrane permeability.

Protein 2C: Associates with and induces structural rearrangements of intracellular membranes. It displays RNA-

binding, nucleotide binding and NTPase activities.

Protein 3A, via its hydrophobic domain, serves as membrane anchor. It also inhibits endoplasmic reticulum-to-

Golgi transport.

Protease 3C: cysteine protease that generates mature viral proteins from the precursor polyprotein. In addition

to its proteolytic activity, it binds to viral RNA, and thus influences viral genome replication. RNA and substrate

bind cooperatively to the protease.

RNA-directed RNA polymerase 3D-POL replicates genomic and antigenomic RNA by recognizing replications

specific signals.

Subunit:

Protein 2C N-terminus interacts with human RTN3. This interaction is important for viral replication.

Subcellular Location:

Protein VP2: Virion. Host cytoplasm (Potential).

Protein VP3: Virion. Host cytoplasm (Potential).

Protein VP1: Virion. Host cytoplasm (Potential).

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Protein 2B: Host cytoplasmic vesicle membrane; Peripheral membrane protein; Cytoplasmic side (Potential).

Note=Probably localizes to the surface of intracellular membrane vesicles that are induced after virus infection as

the site for viral RNA replication. These vesicles are derived from the endoplasmic reticulum.

Protein 2C: Host cytoplasmic vesicle membrane; Peripheral membrane protein; Cytoplasmic side (Potential).

Note=Probably localizes to the surface of intracellular membrane vesicles that are induced after virus infection as

the site for viral RNA replication. These vesicles are derived from the endoplasmic reticulum.

Protein 3A: Host cytoplasmic vesicle membrane; Peripheral membrane protein; Cytoplasmic side (Potential).

Note=Probably localizes to the surface of intracellular membrane vesicles that are induced after virus infection as

the site for viral RNA replication. These vesicles are derived from the endoplasmic reticulum.

Protein 3B: Virion (Potential).

Protease 3C: Host cytoplasm (Potential).

RNA-directed RNA polymerase 3D-POL: Host cytoplasmic vesicle membrane; Peripheral membrane protein;

Cytoplasmic side (Potential). Note=Probably localizes to the surface of intracellular membrane vesicles that are

induced after virus infection as the site for viral RNA replication. These vesicles are derived from the endoplasmic

reticulum.

Post-translational modifications:

Specific enzymatic cleavages in vivo by the viral proteases yield a variety of precursors and mature proteins.

Polyprotein processing intermediates such as VPO which is a VP4-VP2 precursor are produced. During virion

maturation, non-infectious particles are rendered infectious following cleavage of VPO. This maturation cleavage

is followed by a conformational change of the particle.

VPg is uridylylated by the polymerase and is covalently linked to the 5'-end of genomic RNA. This uridylylated

form acts as a nucleotide-peptide primer for the polymerase.

Myristoylation of VP4 is required during RNA encapsidation and formation of the mature virus particle.

Similarity:

Belongs to the picornaviruses polyprotein family.

Contains 2 peptidase C3 domains.



applications.

Contains 1 RdRp catalytic domain.
Contains 1 SF3 helicase domain.
SWISS:
Q66478
Gene ID:
N/A
Important Note:
This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic