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AP09228PU-N Polyclonal Antibody to Pk (V5) Epitope Tag (GKPIPNPLLGLDST) - Aff - Purified

Quantity: 0.1 mg

Concentration: 1.0 mg/ml (by UV absorbance at 280 nm)

Background: Epitope tags are short peptide sequences that are easily recognized by tag-specific antibodies. Due to their small size, epitope tags do not affect the tagged protein's biochemical properties. Most often sequences encoding the epitope tag are included with target DNA at the time of cloning to produce fusion proteins containing the epitope tag sequence. This allows anti-epitope tag antibodies to serve as universal detection reagents for any tag containing protein produced by recombinant means. This means that anti-epitope tag antibodies are a useful alternative to generating specific antibodies to identify, immunoprecipitate or immunoaffinity purify a recombinant protein.

Host / Isotype: Rabbit / IgG

Immunogen: Peptide corresponding to aa 95-108 of the V protein conjugated to KLH using maleimide

AA Sequence:

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1 mdptdlsfsp deinklietg lntveyftsq qvtgtsslgk ntippgvtgl ltnaaeakiq
61 estnhqkgsv gggakpkkpr pkiaivpadd ktvpgkpipn pllgldstps tqtvldlsgk
121 tlpsgsykgv klakfgkenl mtrfieepre npiatsspid fkrgrdtggf hrreysigwv
181 gdevkvtewc npscspitaa arrfectchq cpvtcsecer dt
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Remarks: V protein [Simian parainfluenza virus 5], 222 aa, predicted MW 167.7 kDa

Format: **State:** Liquid sterile filtered Ig fraction
Purification: Affinity chromatography
Buffer System: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2, 0.01% (w/v) Sodium Azide

Applications: ELISA: 1:10,000 - 1:60,000.
Western blot: 1:5,000 - 1:10,000.
Immunohistochemistry: 1:500 - 1:3,000.
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity: This affinity-purified antibody is directed against V5 motif and is useful in determining its presence in various assays. This polyclonal anti-V5-tag antibody detects over-expressed proteins containing the V5 epitope tag. To date this antibody has reacted with all V5 tagged proteins tested so far.
The antibody recognizes the V5-epitope tag (GKPIPNPLLGLDST) fused to either the carboxy- terminal end of targeted proteins in transfected or transformed cells. Although not yet tested, expect reactivity with recombinant proteins prepared with the V5-epitope tag fused to the amino terminal end as well.

Storage:

Store the antibody at 2 - 8 °C up to one month or for longer (in aliquots) at -20 °C or below. Avoid repeated freezing and thawing. Should this product contain a precipitate we recommend microcentrifugation before use.
Shelf life: one year from despatch.

Pictures:

Anti-V5 EPITOPE TAG polyclonal antibody detects V5-tagged recombinant protein by western blot. This antibody was used at 1.0 µg/ml to detect 0.05 µg (lane 2) of full-length recombinant mouse serum albumin containing the V5 epitope tag at the carboxy end. Comparison to MW markers (lane 1) indicates detection of monomeric V5 tagged albumin. A 4-20% gradient gel was used to separate the protein by SDS-PAGE under non-reducing conditions. The protein was transferred to nitrocellulose using standard methods. After blocking the membrane was probed with the primary antibody overnight at 4° C followed by washes and reaction with a 1:10,000 dilution of IRDye(TM)800 conjugated Gt-a-Rabbit IgG [H&L] for 45 min at room temperature. LICOR's Odyssey® Infrared Imaging System was used to scan and process the image. Other detection systems will yield similar results.