

Goat Anti-Parainfluenza Type 2 and 3 Polyclonal Antibody

Goat, Polyclonal (Parainfluenza Type 2 and 3)

Cat. No. DPAB1422

Lot. No. (See product label)

PRODUCT INFORMATION

Product Overview: Goat Antibody to Parainfluenza, Type 2 and 3 (all antigens) Fluorescein conjugated

Immunogen: Human isolate, type 3

Specificity: All structural antigens. Cross-reacts with type 2. Minimal reactivity with type 1. Does not react with HEp-2 cells by indirect immunofluorescence. Some cross reactivity with bovine parainfluenza-3 and canine parainfluenza.

Host animal: Goat

Format: FITC, Liquid

Purification: IgG fraction covalently coupled with highly purity Isomer I of fluorescein isothiocyanate. Care is taken to ensure complete removal of any free fluorescein from the final product.

Applications: Suitable for use in direct IFA. Acetone fixation of the antigen source is recommended prior to staining. Each laboratory should determine an optimum working titer for use in its particular application. Other applications have not been tested but use in such assays should not necessarily be excluded.

REFERENCES

1. Caignard G et al. Differential regulation of type I interferon and epidermal growth factor pathways by a human Respirovirus virulence factor. PLoS Pathog 5:e1000587 (2009).
2. Sato M, Wright PF (October 2008). "Current status of vaccines for parainfluenza virus infections". Pediatr. Infect. Dis. J. 27 (10 Suppl): S123–125.

BACKGROUND

Introduction: Parainfluenza viruses belong to the genus Paramyxovirus of the family Paramyxoviridae. They are enveloped viruses with a single-strand RNA genome of negative polarity and range in diameter from 150 to 200 nm. Four types of parainfluenza viruses have been identified. Types 1 and 2 are major causes of laryngotracheo-bronchitis (croup), with greatest severity in children ages 2 to 4 years. Type 3 infection can also lead to croup but, most notably, is a major cause of infant bronchiolitis, pneumonia, and hospitalization. Infection from type 3 virus is most severe in infants less than 1 year old. Parainfluenza type 4 has been associated only with mild upper respiratory illness in adults and children.

Keywords: Group V ((-)ssRNA); Mononegavirales; Paramyxoviridae; Human parainfluenza viruses; HPIV3; Parainfluenza 3 virus; PIV3; Parainfluenza Type 2 and 3

PACKAGING

Concentration: 4-5mg/ml (OD280nm, E^{0.1%}=1.4)

Buffer: 0.01M PBS, pH 7.2 containing 10mg/ml BSA

Preservative: 0.1% Sodium azide

Storage: Short-term (up to 6 months) store at 2–8°C under subdued light. Long term, aliquot and store at -20°C. Avoid multiple freeze/thaw cycles.

Warning: This product contains sodium azide, which has been classified as Xn (Harmful), in European Directive 67/548/EEC in the concentration range of 0.1–1.0%. When disposing of this reagent through lead or copper plumbing, flush with copious volumes of water to prevent azide build-up in drains.

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