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SM1499P Monoclonal Antibody to Canine IgE - Purified

Alternate names: Dog IgE, Dog Immunoglobulin E

Quantity: 0.25 mg

Concentration: 1.0 mg/ml

Background: IgE is the class of antibodies produced in the lungs, skin, and mucous membranes. It may protect against parasite invasion, but it is a major factor in allergic reactions. The antigen-specific IgE interacts with mast cells and eosinophils, triggers the release of histamine, leukotrienes and other substances that lead to the itching, sneezing and congestion of allergies -and the life threatening respiratory distress of asthma and anaphylactic shock.

Host / Isotype: Mouse / IgG1

Recommended Isotype Controls: AM03095PU-N

Clone: E6-71A1

Immunogen: Affinity purified IgE preparation from heavily parasitized and allergic dog serum.

Format:
State: Liquid purfied IgG fraction
Purification: Affinity Chromatography on Protein A from tissue culture supernatant
Buffer System: PBS, pH 7.2
Preservatives: 0.05% Sodium Azide

Applications:
ELISA.
Western Blotting: Under reducing conditions, this antibody detects a single major band of approximately 62-65 kDa in samples of affinity purified Dog IgE.
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity: This Mouse anti Dog IgE antibody, clone E6-71A1, recognizes Canine IgE. It does not cross react with Dog IgM, IgA, IgG1 or IgG2.
Western blot analysis against affinity purified dog IgE using Mouse anti Dog IgE clone E6-71A1 demonstrates a single major band of 62-65kDa under reducing conditions.
Species: Canine (Dog)
Other species not tested.

Storage: Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

General Readings:
1. Ognjenovic J, Milcic-Matic N, Smiljanic K, Vuckovic O, Burazer L, Popovic N, et al. Immunoproteomic characterization of Ambrosia artemisiifolia pollen allergens in canine atopic dermatitis. Vet Immunol Immunopathol. 2013 Sep 1;155(1-2):38-47. doi: 10.1016/j.vetimm.2013.06.005. Epub 2013 Jun 7. PubMed PMID: 23830203.
2. Martins, L.M. et al. (2017) Allergy to grass pollen: mapping of Dactylis glomerata and Phleum pratense allergens for dogs by two-dimensional immunoblotting. Postepy Dermatol Alergol. 34 (1): 60-9. PubMed PMID: 28261033