

## Anti-Fel d 1 [REGN1909] Standard Size Ab02813-13.0

**Isotype and Format:** Human IgG4, Kappa

**Clone Number:** REGN1909

**Alternative Name(s) of Target:** Major cat allergen; CH2; AG4; Major allergen I polypeptide chain 2; Allergen Cat-1; Allergen Fel d I-B; Allergen FdI; Fel dI; Fel d 1-B

**UniProt Accession Number of Target Protein:** P30440

**Published Application(s):** crystallization, functional assay, SPR, Block, ELISA

**Published Species Reactivity:** Cat (Felis catus)

**Immunogen:** The original antibody was generated by immunizing a Regeneron's VelocImmune human antibody producing transgenic mouse with recombinant dimeric Fel d 1.

**Specificity:** This antibody binds chain 2 of the Fel d 1, major cat allergen.

**Application Notes:** The original human IgG4 antibody was found to block binding of wild type Fel d 1 binding to IgE with a maximum blockade of 51% in a blocking ELISA. Surface plasmon resonance was used to identify the affinity of the antibody towards recombinant and wild type Fel d 1. Crystal structure of the Fab fragment antibody was studied using X-ray crystallography. This antibody in combination with REGN1908 was found to be promising in treatment of cat allergies. A single SC dose of REGN1908-1909 in patients with cat allergy resulted in rapid and clinically meaningful reduction in total nasal symptoms by blocking the early allergic response to nasal challenge with cat allergen (PMID: 29650949).

**Antibody First Published in:** Orengo et al. Treating cat allergy with monoclonal IgG antibodies that bind allergen and prevent IgE engagement. Nat Commun. 2018; 9: 1421. [PMID:29650949](#)

**Note on publication:** Describes the generation of two antibodies against major cat allergen Fel d 1 and their possible use in treating cat allergies using allergen-specific immunotherapy (SIT).

## Product Form

**Size:** 200 µg Purified antibody.

**Purification:** Protein A affinity purified

**Supplied In:** PBS with 0.02% Proclin 300.

**Storage Recommendation:** Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.

**Concentration:** 1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.