

Rabbit anti-Cat FEL D1 Polyclonal Antibody | anti-FEL D1 antibody

FEL D1 Major Allergen I Polypeptide Chain 1 Antibody Affinity Purified

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA75780	Rabbit	Cat	Western Blot, Immunoprecipitation, ELISA

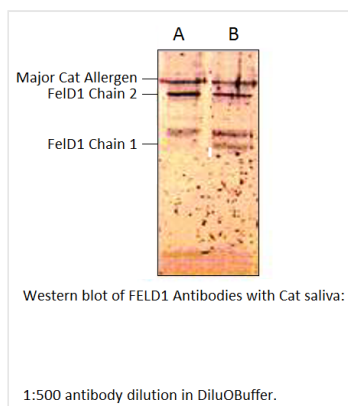
PRODUCT SYNONYMS

FEL D1; Polyclonal Antibody; FEL D1 Major Allergen I Polypeptide Chain 1 Antibody Affinity Purified; CH1; Fel D1; AG4; Allergen Cat-1; Allergen D I-A; Allergen FDI; Allergen Fel Di; Allergen: Fel d 1-A; anti-FEL D1 antibody

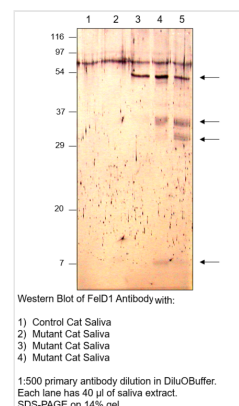
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Cat
Clonality	Polyclonal
Form/Format	Affinity Purified Immunoglobulins
Concentration	0.65-0.75 ug/ul in antibody stabilization buffer (varies by lot)
Sequence Length	92
Applicable Applications for anti-FEL D1 antibody	WB (Western Blot), IP (Immunoprecipitation), ELISA
Immunogen	Synthetic peptide taken within amino acid region 1-50 on feline Major Cat Allergen I polypeptide chain 1.
Expression	Saliva and sebaceous glands.
Determinant	N-epitope
Structure	Heterotetramer composed of two non-covalently linked disulfide-linked heterodimer of chains 1 and 2.
Subcellular Location	Secreted; Extracellular region
Preparation and Storage	-20• degree C for long term storage

IMAGES



WB (Western Blot)



WB (Western Blot)

ADDITIONAL INFORMATION

Related Product Information for anti-FEL D1 antibody	A number of house pet bourn allergens have been studied for allergic reactions in general population. Domestic cat (<i>Felis domestica</i>) is an important source of indoor allergen Fel D1 that affects a large population. Fel D1 is also established to cause catinduce asthma in sensitive patients. The levels of Fel D1 and Can F1 were high in homes of former pet-owners compared to the homes without pets. Children with mild allergy to animal dander may have profound increase in bronchial sensitivity (increased sputum eosinophil peroxidase (EPO) and myeloperoxidase (MPO) activity as a result of constant exposure of animal allergens (Fel D 1 and Can F1) at public places. Allergic reactions to Fel D1 are effectively reduced by conventional immunotherapy in many patients, but this type of immunotherapy has severe reactions, including anaphylaxis and requires several years of injections for successful desensitization. Several strategies have been employed to address Hlese issues Including use of cat allerge'1 peptides. Chimeric constructs of Fel D1 and Fc portion of human IgEs (1). The synthetic cat allergen peptides lack the tertiary structure of native Fel D1 and posses reduced capacity to bind Fel D1-specific IgE. These peptides when given to patients sensitive to cat allergens showed improvement in pulmonary function and tolerance to cats (1) The exposure of chimeric human -cat fusion protein composed of truncated human IgGFcgamma1 and the Fel D1. The chimeriC protein induces dose dependent inhibition of FelD1-driven IgE mediated histamine release form cat allergic donors (2). The allergen is a 38 kDa dimer composed of two 19 kDa subunits. Each 19 kDa subunit comprises two disulfide linked polypeptide chains, a light alpha-chain and a heavy beta-chain containing an N-linked oligosaccharide. The alpha light chain and the heavy beta chain are linked in an anti-parallel configuration. The Fel D1 glycosylation at Asn 33 is of heterogeneous triantennary structure caused by terminal sialic acid and fructose residues attached to beta-galactose residues. Anti-Fel D1-selective antibodies are developed against 3 epitopes covering the majority of the protein. The affinity purified mono-specific polyclonal antibodies to FEL D1 strongly labels a 15-18 kDa protein in cat saliva samples examined. A cyclic peptide methodology was employed for generating antibodies, which results in higher titer and specificity. Western blot positive control in ready-to-use SDS-sample buffer (MBS542727) and antigenic blocking peptide (MBS543668) may be available upon request. Antibodies can be conjugated with fluorescent probes or other secondary enzymes, please enquire.
Product Categories/Family for anti-FEL D1 antibody	Primary Antibodies; Immunology; FEL D1 Major allergen 1 polypeptide chain 1 Antibody

NCBI AND UNIPROT INFORMATION

NCBI GI #	1169665
NCBI GeneID	677877
UniProt Accession #	P30438 ; P30439
NCBI Official Full Name	Major allergen I polypeptide chain 1
NCBI Official Symbol	LOC677877
NCBI Official Synonym Symbols	CH1
NCBI Protein Information	major allergen I polypeptide chain 1
UniProt Protein Name	Major allergen I polypeptide chain 1
UniProt Gene Name	CH1
UniProt Synonym Gene Names	Allergen FdI; Allergen Fel dI
UniProt Entry Name	FEL1A_FELCA

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/fel-d1-antibody-western-blot-immunoprecipitation-elisa/75780>