

FEL D1 blocking peptide

FEL D1 Major Allergen I Polypeptide Chain 1 Antigenic Blocking Peptide C-epitope

CATALOG #
AAA76004

APPLICATIONS
Immunocompetition, Immunodepletion

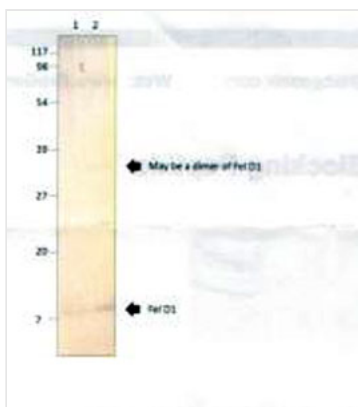
PRODUCT SYNONYMS

FEL D1; FEL D1 Major Allergen I Polypeptide Chain 1 Antigenic Blocking Peptide C-epitope; H1; Fel D1; AG4; Allergen Cat-1; Allergen D I-A; Allergen FDI; Allergen Fel Di; Allergen: Fel d 1-A; FEL D1 blocking peptide

PRODUCT SPECIFICATIONS

Form/Format	Antigenic Blocking Peptide
Sequence Length	92
Applicable Applications for FEL D1 blocking peptide	Immunocompetition, Immunodepletion
Immunogen	Synthetic peptide taken within amino acid region 42-88 on feline Major Cat Allergen I polypeptide chain 1.
Preparation and Storage	Store at -20°C for long term storage.

IMAGES



WB (Western Blot)

Western Blot of FEL D1 antibody (FELD1-121AP) with:1) Control Cat Saliva2) Mutated Cat Saliva60 ul of sample was applied to each lane.Apparent MW is 11 kDa.Dilutions are for reference only. Applications not listed above are not necessarily precluded from working with this antibody.

ADDITIONAL INFORMATION

Related Product Information for FEL D1 blocking peptide	A number of house pet bourn allergens have been studied for allergic reactions in general population. Domestic cat (Felis domestica) is an important source of indoor allergen Fel D1 that affects a large opulation. Fel DI is also established to cause catinduce asthma in sensitive patients. The levels of Fel D1 nd Can FI were high in homes of former pet-owners compared to the homes without pets. Children with ild allergy to animal dander may have profound increase in bronchial sensitivity (increased sputum osinophil peroxidase (EPO) and myeloperoxidase (MPO) activity as a result of constant exposure of nimal allergens (Fel D1 and Can FI) at public places. Allergic reactions to Fel D1 are effectively reduced y conventional immunotherapy in many patients, but this type of irmmunotherapy has severe reactions, ncluding anaphylaxis and requires several years of injections for successful desensitization. Several strategies have been employed to address these issues including use of cat allergen peptides, chimeric onstructs of Fel D1 and Fc portion of human IgEs (1). The synthetic cat allergen peptides lack the tertiary tructure of native Fel D1 and posses reduced capacity to bind Fel D1-specific IgE. These peptides when iven to patients sensitive to cat allergens showed improvement in pulmonary function and tolerance to ats (1). The exposure of chimeric human -cat fusion protein composed of truncated human IgGFcgammal nd the Fel DI . The chimeric protein induces dose dependent inhibition of Fel D1-driven IgE mediated istamine release form cat allergic donors (2). The allergen is a 38 kDa dimer composed of two 19 kDa subunits. ach 19 kDa subunit comprises two disulfide linked polypeptide chains, a light alpha-chain and a heavy beta-chain containing an N-linked ligosaccharide. The alpha light chain and the heavy beta chain are linked in an anti-parallel configuration. The Fel DI glycosylation at Asn 3 is of heterogeneous triantennary structure caused by terminal sialic acid and fructose residues attached to beta-galactose residues. FabGennix has developed anti-Fel D1-selective antibodies against 3 epitopes covering the majority of the protein. The affinity purified ono- pecific polyclonal antibodies to FEL D1 strongly labels a 15-18 kDa protein in cat saliva samples examined. MBS employs cyclic eptide methodology for generating antibodies, which results in higher titer and specificity. Western blot positive control in readyto-use DS-sample buffer (PC-FELDI) and antigenic blocking peptide (P-FELD1 .3) are available. Antibodies can be conjugated with fluorescent robes or other secondary enzymes upon request at extra charge.
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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.