



# Rabbit anti Dog Can f 1 polyclonal antibody (CABT-L073)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Specificity</b>	The antiserum contains IgG antibodies to dog Canis familiaris allergen, Can f 1, as well as IgG antibodies to other dog allergens.
<b>Target</b>	Can f 1
<b>Immunogen</b>	Dog fur extract, Can f 1
<b>Isotype</b>	IgG
<b>Source/Host</b>	Rabbit
<b>Species Reactivity</b>	Dog
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	ELISA
<b>Format</b>	Liquid
<b>Size</b>	100 µl
<b>Buffer</b>	Prepared in 1% BSA/50% glycerol/PBS, pH 7.4.
<b>Preservative</b>	None
<b>Storage</b>	Store at 4°C.

## BACKGROUND

**Introduction** Canis familiaris allergen 1 (Can f 1) and Canis familiaris allergen 2 (Can f 2) are the two major

allergens present in dog dander extracts. We now report the isolation of cDNAs encoding both proteins and present their nucleotide and deduced amino acid sequences. Can f 1, produced by tongue epithelial tissue, has homology with the von Ebner's gland (VEG) protein, a salivary protein not previously thought to have allergenic properties. Can f 2, produced by tongue and parotid gland, has homology with mouse urinary protein (MUP), a known allergen. Both VEG protein and MUP are members of the lipocalin family of small ligand-binding proteins. Recombinant forms of Can f 1 and Can f 2 were produced and tested for immunoglobulin E (IgE) reactivity. Among dog-allergic subjects, 45% had IgE directed exclusively to rCan f 1, and 25% had IgE to both rCan f 1 and rCan f 2. In addition, both recombinant proteins were able to cross-link IgE and elicit histamine release from peripheral blood leucocytes in vitro.

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**Keywords**

Canis familiaris allergen; von Ebner's gland (VEG) protein; mouse urinary protein (MUP); ligand-binding proteins; dog-allergic

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## GENE INFORMATION

**UniProt ID**

[O18873](#)

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