

# Monoclonal human antibody against Birch pollen allergen Bet v1

## Product reference: DDX0070-DDX0076

### Description:

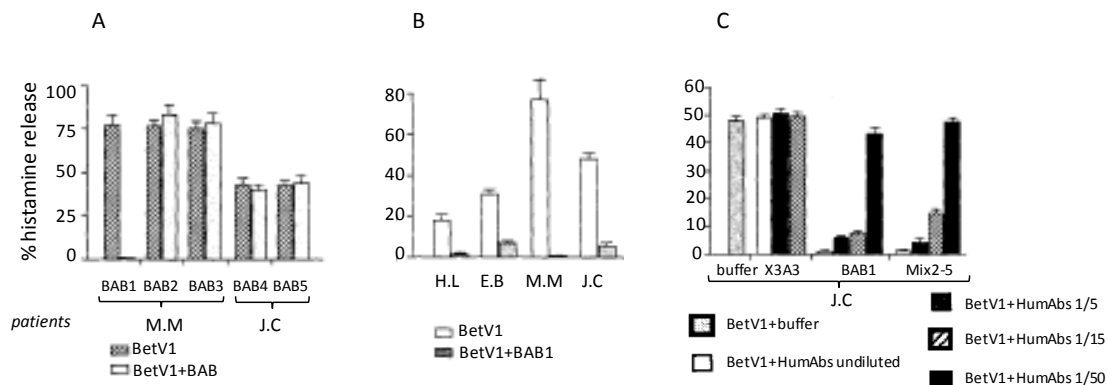
Birch pollen allergy is a frequent pathology with IgE reactivity against Betv1 the major birch pollen allergen. Human monoclonal antibodies secreting B cells have been cloned from PBMC of allergic patients. These high affinity human monoclonal antibodies raised against BetV1 inhibit the binding of IgE to nitrocellulose-blotted Bet v1 and inhibit histamine release by sensitized basophils. (Visco V. et al, *J. Immunol.*, 1996 ; 157: 956-962 ; Denépoux S et al, *FEBS Lett.* 2000 Jan 7;465(1):39-46.)

<b>Specificity:</b>	birch pollen Bet v1
<b>Cross-reactivity:</b>	large panel of tree's pollen
<b>Source:</b>	human B cells immortalized from a birch pollen allergic patient
<b>Purification:</b>	QMA Hyper-D Ion-exchange chromatography
<b>Formulation/size:</b>	<b>Purified:</b> 100 µg in 200 µl Tris-NaCl pH 8 <b>Coupled:</b> 100 µg in 200 µl PBS 50% glycerol

### Available references:

Reference		Clone	Referred to as (Visco et al)	Format	Isotype	Application tested
50µg	100µg					
DDX0070 P-50	DDX0070 P-100	H.G27E9B1	BAB4	purified	IgG2,k	ELISA (coating) IP
DDX0071 P-50	DDX0071 P-100	H.G26F6B2.06		purified	IgG3	ELISA, IP
DDX0072 P-50	DDX0072 P-100	H.G11A9F3.03	BAB3	purified	IgG4,k	ELISA (coating) , IP
DDX0073 P-50	DDX0073 P-100	H.G28C10.01	BAB5	purified	IgG4,k	ELISA (coating) , IP
DDX0074 P-50	DDX0074 P-100	H.G5F2A4.09	BAB1	purified	IgG1 ,k	ELISA, histamine release blocking , WB
DDX0075 P-50	DDX0075 P-100	H.G3A3C2.04		purified	IgG2	ELISA, IP
DDX0076 P-50	DDX0076 P-100	H.G17E7A1	BAB2	purified	IgG4	ELISA (coating) , histamine release increase

### Other clones available on request



Enriched basophils from birch pollen were incubated with concentrations of nBetV1 inducing from 50 to 100% of the maximal histamine release in the presence or the absence of the mentioned HumAbs. The histamine release was expressed as a percentage of maximal histamine release. The mean and SD of three measurements are presented. **A**, when tested individually, only BAB1 inhibits the Betv1-induced histamine release. The five HumAbs were individually preincubated, at concentrations ranging from 0.4 to 1.5mg/ml with nBetv1 before challenging exposure of the basophils of two allergic patients (M.M and J.C). **B**, BAB 1 preincubated at 1.5mg/ml with nBetv1 inhibits the histamine release from the basophils of the four patients tested (H.L, E.B, M.M, and J.C). **C**, the Betv1-induced histamine release inhibition is specific and dose-dependent. nBetv1 was preincubated with successive dilutions of an anti-IL1 $\alpha$  HumAB X3A3 (starting from 1.3mg/ml), of BAB1 (starting from 1.5mg/ml) or of a mixture of BAB2 to BAB5 (starting at 0.1mg/ml for each) and then exposed to the baophils from patient J.C.

(Visco et al, *Jl* 1996)

### Usage recommendation:

- \*This monoclonal antibody may be used between 5-20 µg/ml.
- \*Optimal dilution should be determined by each laboratory for each application.
- \*Coupled antibody: to maintain RT before use

### Aliquot storage conditions:

- 20°C. KEEP CONTENTS STERILE: no preservative.**
- Purified antibodies: avoid repeated freeze/thaw cycles.**
- Coupled antibodies: glycerol protects from freezing.**

Not for use in Humans. For research purpose only