



Mouse mAb to Hev b1 (Rubber elongation factor, REF) (clone 1-1)

Catalogue #	A3-700-100
Immunogen:	Hev b1
Immunogen Description:	Hev b1 - MBP fusion protein expressed and purified from <i>E. coli</i> .
Alternative Names:	Rubber elongation factor protein – REF (<i>Hevea brasiliensis</i>)
Uniprot ID:	P15252
Clonality:	Mouse monoclonal
Clone:	1-1
Class:	mIgG2a
Reactivity:	Recombinant and native Hev b1
Application:	ELISA, WB
Protocol:	Monoclonal antibody working titer has to be established practically for each particular antigen and assay format
ELISA:	0.03 – 0.1 µg/ml. Reacts as detection antibody in Capture ELISA with Hev b1 binding monoclonal antibody A3-701-100
Purification:	Protein G purification
Buffer:	PBS, 0.1% sodium azide
Related Products:	A3-700-100 - mouse monoclonal antibody to Hev b1, used as a detection antibody in pair with binding antibody A3-701-100 in capture ELISA. Monoclonal antibodies to Hev b3, Hev b5 and Hev b6.02 are available.
Shipping:	This product is shipped in non-frozen liquid form in ambient conditions
Storage:	Store at - 20 ...-70 °C upon receipt. Divide antibody into aliquots prior usage. Avoid multiple

freeze-thaw cycles as product degradation may result

Background:

Liquid latex from the rubber tree, *Hevea brasiliensis*, is the source of natural rubber latex (NRL) and contains over 200 proteins; 14 of them have been identified as allergens. Only some allergens retain their allergenic properties through the manufacturing processes. The NRL allergens that have been shown to be clinically relevant to genuine NRL allergy, and present in the final NRL products with maintained allergenicity are Hev b1, Hev b3, Hev b5 and Hev b6.02

References

ASTM D7427 - 08e1 Standard Test Method for Immunological Measurement of Four Principal Allergenic Proteins (Hev b 1, 3, 5 and 6.02) in Natural Rubber and Its Products Derived from Latex.

Koh D, Ng V, Leow YH, Goh CL. 2005.
A study of natural rubber latex allergens in gloves used by healthcare workers in Singapore. *Br J Dermatol.* 153(5):954-9.

Palosuo T, Alenius H, Turjanmaa K. 2002.
Quantitation of latex allergens. *Methods.* 27(1):52-8.

Peixinho C, Tavares-Ratado P, Tomás MR, Taborda-Barata L, Tomaz CT. 2008.
Latex allergy: new insights to explain different sensitization profiles in different risk groups. *Br J Dermatol.* 159(1):132-6.

Kang PB, Vogt K, Gruninger SE, Marshall M, Siew C, Meyer DM. 2007.
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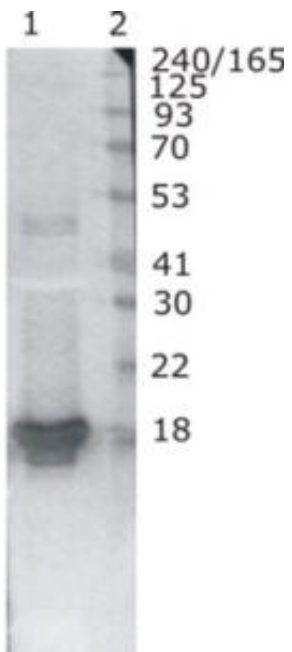


Figure 1. Western Blot testing of natural latex extract using anti-Hev b1 antibody (A3-700-100, clone 1) Line 1. 10 μ l of 20x diluted natural latex extract were loaded per line. Line 2. Protein size marker.