

## Product Specification Sheet

**Product:** Anti-Human BIVM (C-terminal specific) RABBIT

**Code:** 100-401-250

**Lot #** 11706

**Size:** 100  $\mu$ l

**Physical State:** Liquid (sterile filtered)

**Protein Concentration:** 90 mg/ml (by Refractometry)

**Buffer:** 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2

**Stabilizer:** None

**Preservative:** 0.01% (w/v) Sodium Azide

**Background:** BIVM (for basic, immunoglobulin-like variable motif-containing) refers to a recently identified gene product that maps to human chromosome 13q32-q33 and is predicted to encode a 503-amino acid protein. BIVM shows ubiquitous expression in normal human tissue and the presence of a 5' CpG island suggests it is a housekeeping gene. BIVM is likely essential for some aspect of basic cellular function. BIVM is highly charged and localizes to the cytoplasm and nucleus where it may bind to either DNA or RNA or associate with other cellular proteins. Significant sequence homology exists with many organisms.

**Application Note(s):** This polyclonal antibody reacts human BIVM at the C-terminal region and is useful for detection of BIVM by ELISA or western blotting. Although not tested, this antibody is likely functional in immunohistochemistry and immunoprecipitation.

**Recommended Dilution(s):** For immunoblotting a 1:1,000 dilution is recommended. A 57 kDa band corresponding to human BIVM is detected. Unstimulated HeLa cells can be used as a positive control. For ELISA a 1:5,000 to 1:25,000 dilution is recommended. Researchers should determine optimal titers for other applications.

**Storage Conditions:** Store vial at  $-20^{\circ}$  C prior to opening. Centrifuge product if not completely clear after standing at room temperature. Dilute only prior to immediate use. For extended storage aliquot contents and freeze at  $-20^{\circ}$  C or below. Avoid cycles of freezing and thawing. Expiration date is one (1) year from date of opening.

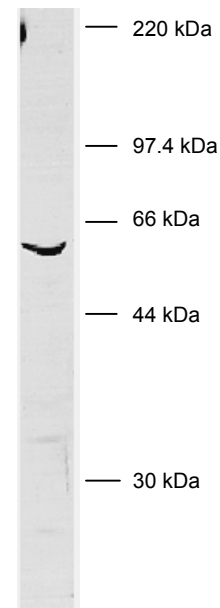
**Purity and Specificity:** This product was prepared from monospecific antiserum by delipidation and defibrination. This polyclonal antibody reacts with BIVM. This conserved protein is present in many tissues and organisms and therefore cross-reactivity with BIVM from other sources is likely but has not been determined.

**Immunogen:** BIVM peptide corresponding to a region near carboxy terminus of the human protein conjugated to Keyhole Limpet Hemocyanin (KLH). Sequence information: C-R-N-S-G-Y-Q-G-Y-S-D-Y-D-G-N-D

### General Reference(s):

Yoder, J.A., N.A. Hawke, D. Eason, M.G. Mueller, B.J. Davids, F.D. Gillin and G.W. Litman. 2002. *BIVM*, a novel gene widely distributed among deuterostomes, shares a core sequence with an unusual gene in *Giardia lamblia*. *Genomics*. 79:750-755.

**Note:** This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information.



**Figure. Western blot of anti-human BIVM.**

Whole cell HeLa lysate was used to probe for endogenous BIVM using Rabbit-anti-Human BIVM (C-terminal specific) polyclonal antibody. A 57 kDa band corresponding to human BIVM protein is detected using a 1:1,000 dilution of the antiserum incubated for 1 hour at room temperature. Washes with 1% Tween-20 TBS preceded reaction with HRP Gt-a-Rabbit IgG (H&L) code 611-103-122 diluted 1:10,000 and incubated for 1 hour at room temperature. The blot was developed using a chemiluminescent detection method (AP ECL 60 sec followed by a 45 sec exposure). Other detection methods will yield similar results.