

BM6049P**Monoclonal Antibody to M13 Bacteriophage G8P Capsid - Purified**

Alternate names:	Coat protein B, Gene 8 protein, Major coat protein
Quantity:	0.1 mg
Concentration:	1.0 mg/ml
Background:	The display of repertoires of antibody fragments on the surface of filamentous phage offers a new way to produce immunoreagents with defined specificities. Phage derived antibody fragments offer a number of advantages over mouse monoclonal antibodies, such as better clearance from the blood, the possibility to select from human combinatorial libraries and the relative ease by which such fragments can be manipulated. The phage display technique thus facilitates the selection of antibody fragments of therapeutic value or research interest. Antibodies to M13 filamentous phage coat proteins are instrumental in the selection and detection of phages expressing specific antibody fragments or peptide sequences at their surface.
Uniprot ID:	P69541
NCBI:	NP_510890.1
GeneID:	927333
Host / Isotype:	Mouse / IgG2b
Recommended Isotype Controls:	SM12P, AM03110PU-N
Clone:	RL-ph1
Immunogen:	Isolated M13 phage coat proteins. Remarks: Derived by fusion of SP2/0-Ag14 mouse myeloma cells with spleen cells from a BALB/c mouse.
Format:	State: Liquid purified IgG fraction Buffer System: PBS Preservatives: 0.09% Sodium Azide
Applications:	Western Blot: 1/100-1/1000. Immunocytochemistry. Flow Cytometry: 1/25-1/200. Immunohistochemistry: 1/25-1/200 with ABC as detection system. ELISA. Affinity Chromatography. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	<i>RL-ph1</i> reacts with the M13 filamentous phage coat protein g8p with a Molecular Weight of approx. 5 kDa.

Storage:

Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.
Avoid repeated freeze-thaw cycles.
Shelf life: One year from despatch.

General Readings:

1. McCafferty J, Griffiths AD, Winter G, Chiswell DJ. Phage antibodies: filamentous phage displaying antibody variable domains. *Nature*. 1990 Dec 6;348(6301):552-4. PubMed PMID: 2247164.
2. Clackson T, Hoogenboom HR, Griffiths AD, Winter G. Making antibody fragments using phage display libraries. *Nature*. 1991 Aug 15;352(6336):624-8. PubMed PMID: 1907718.
3. Meulemans EV, Slobbe R, Wasterval P, Ramaekers FC, van Eys GJ. Selection of phage-displayed antibodies specific for a cytoskeletal antigen by competitive elution with a monoclonal antibody. *J Mol Biol*. 1994 Dec 9;244(4):353-60. PubMed PMID: 7527464.
4. Meulemans EV, Nieland LJ, Debie WH, Ramaekers FC, van Eys GJ. Phage displayed antibodies specific for a cytoskeletal antigen. Selection by competitive elution with a monoclonal antibody. *Hum Antibodies Hybridomas*. 1995;6(3):113-8. PubMed PMID: 8597626.

Pictures:

Immunoblot analyses of the monoclonal antibody RL-ph1 (Cat.-No BM6049P) and RL-ph2 (Cat.-No BM6050P) reactive with g8p coat proteins of the Filamentous Bacteriophage M13.

