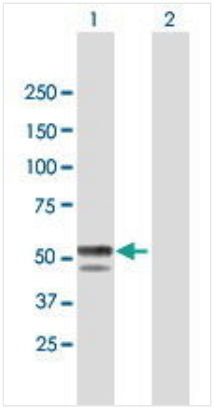
# BLMH Antibody – Mouse Polyclonal

## PRODUCT OVERVIEW

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| **Product Name** | BLMH, Polyclonal Antibody |
| **Full Product Name** | BLMH (Bleomycin Hydrolase, BH, BLM Hydrolase, BMH) |
| **Product Gene Name** | anti-BLMH antibody |
| **Product Synonym Names** | Anti -BLMH (Bleomycin Hydrolase, BH, BLM Hydrolase, BMH) |
| **Immunogen Sequence** | MSSSGLNSEK VAALIQKLNS DPQFVLAQNV GTTHDLLDIC LKRATVQRAQ HVFQHAVPQE GKPITNQKSS GRCWIFSCLN VMRLPFMKKL NIEEFEFSQS YLFFWDKVER CYFFLSAFVD TAQRKEPEDG RLVQFLLMNP ANDGGQWDML VNIVEKYGVI PKKCFPESYT TEATRRMNDI LNHKMREFCI RLRNLVHSGA TKGEISATQD VMMEEIFRVV CICLGNPPET FTWEYRDKDK NYQKIGPITP LEFYREHVKP LFNMEDKICL VNDPRPQHKY NKLYTVEYLS NMVGGRKTLY NNQPIDFLKK MVAASIKDGE AVWFGCDVGK HFNSKLGLSD MNLYDHELVF GVSLKNMNKA ERLTFGESLM THAMTFTAVS EKDDQDGAFT KWRVENSWGE DHGHKGYLCM TDEWFSEYVY EVVVDRKHVP EEVLAVLEQE PIILPAWDPM GALAE |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |
| **Host** | Mouse |
| **Species Reactivity** | Human |
| **Form/Format** | Supplied as a liquid in PBS, pH 7.2. |
| **Purity/Purification** | Affinity Purified<br>Purified by Protein A affinity chromatography. |
| **Specificity** | Recognizes human BLMH. |
| **Preparation and Storage** | May be stored at 4 degree C for short-term only. Aliquot to avoid repeated freezing and thawing. Store at -20 degree C. Aliquots are stable for at least 12 months. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. |
| **Molecular Weight** | 52,562 Da |
| **Chromosome Location** | Chromosome: 17; NC_000017.10 (28575213..28619184, complement). Location: 17q11.2 |
| **OMIM** | 602403 |
| **3D Structure** | ModBase 3D Structure for Q13867 |
| **Immunogen** | Full length human BLMH, aa1-455 (NP_000377.1). |
| **Product Categories/Family for anti-BLMH antibody** | Antibodies; Abs to Enzymes |
| **Applications Tested/Suitable for anti-BLMH antibody** | Western Blot (WB) |
| **Application Notes for anti-BLMH antibody** | Suitable for use in Western Blot. |
| **Related Product Information for anti-BLMH antibody** | BLMH is a member of the peptidase C1 family and exists as a homohexamer. While its normal physiological function is not known, it protects normal and malignant cells from the glycopeptide antitumor drug BLM. It inactivates bleomycin B2 (a cytotoxic glycometallopeptide) by hydrolysis of a carboxyamide bond of beta-aminoalanine and also shows general aminopeptidase activity. The specificity varies but amino acid arylamides of Met, Leu and Ala are preferred. |

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| **Other Notes** | Small volumes of anti-BLMH antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |
| **Searchable Terms for BLMH purchase** | MBS644087 is an antibody targeting BLMH. Also known as BLMH (Bleomycin Hydrolase, BH, BLM Hydrolase, BMH). Reactive in Human. Host: Mouse. |




**Western Blot (WB) of anti-BLMH antibody**
Western Blot analysis of BLMH expression in transfected 293T cell line by BLMH polyclonal antibody. Lane 1: BLMH transfected lysate (52.6kD). Lane 2: Non-transfected lysate.

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for BLMH. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 4557367 |
| **NCBI GeneID** | 642 |
| **NCBI Accession #** | NP_000377.1 |
| **UniProt Primary Accession #** | Q13867 |
| **UniProt Secondary Accession #** | Q53F86; Q9UER9; B2R796 |
| **UniProt Related Accession #** | Q13867 |
| **GenBank Nucleotide #** | NM_000386.3 |
| **NCBI Official Full Name** | bleomycin hydrolase |
| **NCBI Official Synonym Full Names** | bleomycin hydrolase |
| **NCBI Official Symbol** | BLMH |
| **NCBI Official Synonym Symbols** | BH; BMH |
| **UniProt Protein Name** | Bleomycin hydrolase |
| **Protein Family** | Bleomycin hydrolase |
| **UniProt Gene Name** | BLMH |
| **UniProt Synonym Gene Names** | BH; BLM hydrolase; BMH |
| **UniProt Entry Name** | BLMH_HUMAN |
| **NCBI Protein Information** | bleomycin hydrolase; BLM hydrolase |
| **NCBI Summary for BLMH** | Bleomycin hydrolase (BMH) is a cytoplasmic cysteine peptidase that is highly conserved through evolution; however, the only known activity of the enzyme is metabolic inactivation of the glycopeptide bleomycin (BLM), an essential component of combination chemotherapy regimens for cancer. The protein contains the signature active site residues of the cysteine protease papain superfamily. [provided by RefSeq, Jul 2008] |

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| **UniProt Comments for BLMH** | BLMH: The normal physiological role of BLM hydrolase is unknown, but it catalyzes the inactivation of the antitumor drug BLM (a glycopeptide) by hydrolyzing the carboxamide bond of its B- aminoalaninamide moiety thus protecting normal and malignant cells from BLM toxicity. Belongs to the peptidase C1 family.<br><br>Protein type: EC 3.4.22.40; Protease<br><br>Chromosomal Location of Human Ortholog: 17q11.2<br><br>Cellular Component: nucleoplasm; cytoplasm; nucleus; cytosol<br><br>Molecular Function: protein binding; carboxypeptidase activity; cysteine-type endopeptidase activity; aminopeptidase activity; cysteine-type peptidase activity<br><br>Biological Process: response to drug; antigen processing and presentation of peptide antigen via MHC class I; protein polyubiquitination; response to toxin; proteolysis<br><br>Disease: Alzheimer Disease |
| **Research Articles on BLMH** | **1.** BH may play an important role during the late stage of epidermal differentiation. |
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