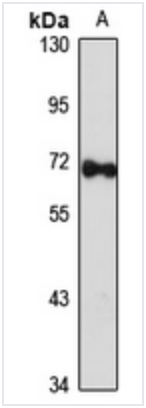
# GBP2 Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

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| **Product Name** | GBP2, Polyclonal Antibody |
| **Full Product Name** | Anti-GBP2 Antibody |
| **Product Gene Name** | anti-GBP2 antibody |
| **Product Synonym Names** | Interferon-induced guanylate-binding protein 2; GTP-binding protein 2; GBP-2; HuGBP-2; Guanine nucleotide-binding protein 2 |
| **Clonality** | Polyclonal |
| **Host** | Rabbit |
| **Species Reactivity** | Human |
| **Form/Format** | Liquid in 0.42% Potassium Phosphate, 0.87% Sodium Chloride, pH 7.3, 30% Glycerol, and 0.01% Sodium Azide. |
| **Purity/Purification** | Purified by Immunogen Affinity Chromatography |
| **Specificity** | Recognizes endogenous levels of GBP2 protein. |
| **Preparation and Storage** | Upon delivery aliquot and store at -20 degree C for one year. Avoid freeze/thaw cycles. |
| **Molecular Weight** | 67,209 Da |
| **OMIM** | 600412 |
| **3D Structure** | ModBase 3D Structure for P32456 |
| **Immunogen** | Recombinant fusion protein of human GBP2. The exact sequence is proprietary. |
| **Applications Tested/Suitable for anti-GBP2 antibody** | Western Blot (WB) |
| **Application Notes for anti-GBP2 antibody** | WB: 1:500-1:2000 |
| **Related Product Information for anti-GBP2 antibody** | MBS8306739 is an antibody targeting GBP2. Reactive in Human. Host: Rabbit. Rabbit polyclonal antibody to GBP2 |
| **Other Notes** | Small volumes of anti-GBP2 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. |




**Western Blot (WB) of anti-GBP2 antibody**
Western blot analysis of GBP2 expression in A375 (A) whole cell lysates.

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GBP2. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 38327558 |
| **NCBI GeneID** | 2634 |
| **NCBI Accession #** | NP_004111.2 |
| **UniProt Primary Accession #** | P32456 |
| **UniProt Secondary Accession #** | Q6GPH0; Q6IAU2; Q86TB0 |
| **UniProt Related Accession #** | P32456 |
| **GenBank Nucleotide #** | NM_004120.4 |
| **NCBI Official Full Name** | guanylate-binding protein 2 |
| **NCBI Official Synonym Full Names** | guanylate binding protein 2 |
| **NCBI Official Symbol** | GBP2 |
| **UniProt Protein Name** | Guanylate-binding protein 2 |
| **UniProt Synonym Protein Names** | GTP-binding protein 2; GBP-2; HuGBP-2; Guanine nucleotide-binding protein 2; Interferon-induced guanylate-binding protein 2 |
| **Protein Family** | Guanylate-binding protein |
| **UniProt Gene Name** | GBP2 |
| **UniProt Synonym Gene Names** | GBP-2; HuGBP-2 |
| **UniProt Entry Name** | GBP2_HUMAN |
| **NCBI Protein Information** | guanylate-binding protein 2 |
| **NCBI Summary for GBP2** | This gene belongs to the guanine-binding protein (GBP) family, which includes interferon-induced proteins that can bind to guanine nucleotides (GMP, GDP and GTP). The encoded protein is a GTPase which hydrolyzes GTP, predominantly to GDP. The protein may play a role as a marker of squamous cell carcinomas. [provided by RefSeq, Jul 2013] |

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| **UniProt Comments for GBP2** | GBP2: a member of the family of large GTP-binding proteins (GBPs) that is inducible by interferon. Possesses a high GTP hydrolysis activity. GBPs are the most abundant cellular proteins expressed in response to interferon-gamma (IFN-gamma). IFN-gamma, tumor necrosis factor-alpha (TNF-alpha), and interleukin-1beta (IL-1beta) strongly induce the expression of GBP-1, -2, and -3.<br><br>Protein type: Hydrolase; Vesicle<br><br>Chromosomal Location of Human Ortholog: 1p22.2<br><br>Cellular Component: cytosol; Golgi membrane; perinuclear region of cytoplasm<br><br>Molecular Function: GTP binding; GTPase activity; protein binding<br><br>Biological Process: cytokine and chemokine mediated signaling pathway; immune response; metabolic process |
| **Research Articles on GBP2** | **1.** Low GBP2 expression is associated with metastasis in breast cancer. |
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