

**Datasheet for 600-401-BK0****GBP6 Antibody****Overview**

|                      |                                           |
|----------------------|-------------------------------------------|
| <b>Description:</b>  | Anti-GBP6 (RABBIT) Antibody - 600-401-BK0 |
| <b>Item No.:</b>     | 600-401-BK0                               |
| <b>Size:</b>         | 100 µg                                    |
| <b>Applications:</b> | ELISA, IF, IHC, WB                        |
| <b>Reactivity:</b>   | Human, Mouse                              |
| <b>Host Species:</b> | Rabbit                                    |

**Product Details**

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Background:</b>   | The guanylate-binding proteins (GBPs), a family of interferon-induced GTP-binding proteins function in innate immunity against microbial and viral pathogens. In humans, there are seven GBPs from hGBP1 to hGBP7. Human GBP1 and GBP2 have been shown to exhibit antiviral activity as well as being able to regulate the inhibition of proliferation and invasion of endothelial cells in response to interferon (IFN) (1,3). GBP6 is induced by IFN and hydrolyzes GTP to both GDP and GMP. The precise function of GBP6 is still under investigation. |
| <b>Synonyms:</b>     | GBP6 Antibody, Guanylate-binding protein 6, GTP-binding protein 6, GBP-6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Host Species:</b> | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Clonality:</b>    | Polyclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Format:</b>       | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

**Target Details**

|                            |                                                                                                                                                                                     |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name:</b>          | GBP6                                                                                                                                                                                |
| <b>Reactivity:</b>         | Human, Mouse                                                                                                                                                                        |
| <b>Immunogen Type:</b>     | Conjugated Peptide                                                                                                                                                                  |
| <b>Immunogen:</b>          | Anti-GBP6 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 15 amino acid synthetic peptide near the C-terminus of human GBP6.                |
| <b>Purity/Specificity:</b> | Anti-GBP6 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. GBP6 antibody is predicted to not cross-react with other GBP family members. |

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| <b>Relevant Links:</b> | <ul style="list-style-type: none"><li>• <a href="#">UniProtKB - Q6ZN66</a></li><li>• <a href="#">GeneID - 163351</a></li><li>• <a href="#">NCBI - NP_940862</a></li></ul> |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## Application Details

|                             |                                                                                                                                                                                                                                                                                         |
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| <b>Tested Applications:</b> | ELISA, IF, IHC, WB                                                                                                                                                                                                                                                                      |
| <b>Application Note:</b>    | Anti-GBP6 Antibody has been tested for use in ELISA, Western Blotting, Immunocytochemistry and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 72 kDa in Western Blots of specific cell lysates and tissues. |
| <b>Assay Dilutions:</b>     | All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.                                                                                                                                                                                         |
| <b>ELISA:</b>               | 1:5,000                                                                                                                                                                                                                                                                                 |
| <b>IF:</b>                  | 5 µg/mL                                                                                                                                                                                                                                                                                 |
| <b>WB:</b>                  | 0.5 µg/mL                                                                                                                                                                                                                                                                               |

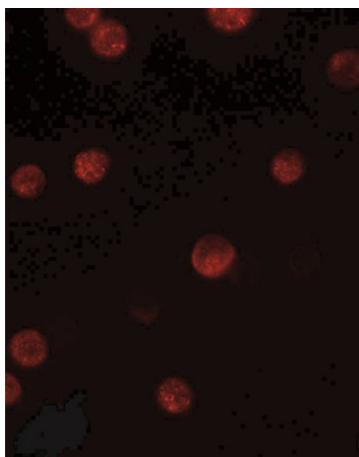
## Formulation

|                        |                                                         |
|------------------------|---------------------------------------------------------|
| <b>Physical State:</b> | Liquid (sterile filtered)                               |
| <b>Concentration:</b>  | 1mg/ml by UV absorbance at 280 nm                       |
| <b>Buffer:</b>         | 0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2 |
| <b>Preservative:</b>   | 0.02% (w/v) Sodium Azide                                |
| <b>Stabilizer:</b>     | None                                                    |

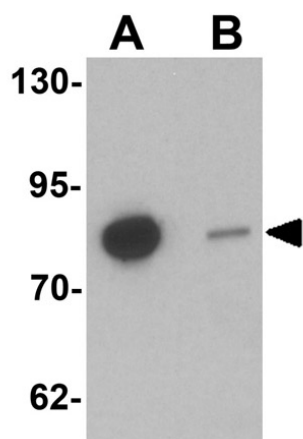
## Shipping & Handling

|                            |                                                                                                                |
|----------------------------|----------------------------------------------------------------------------------------------------------------|
| <b>Shipping Condition:</b> | Wet Ice                                                                                                        |
| <b>Storage Condition:</b>  | Antibody can be stored at 4°C up to one year. Antibodies should not be exposed to prolonged high temperatures. |
| <b>Expiration:</b>         | Expiration date is one (1) year from date of receipt.                                                          |

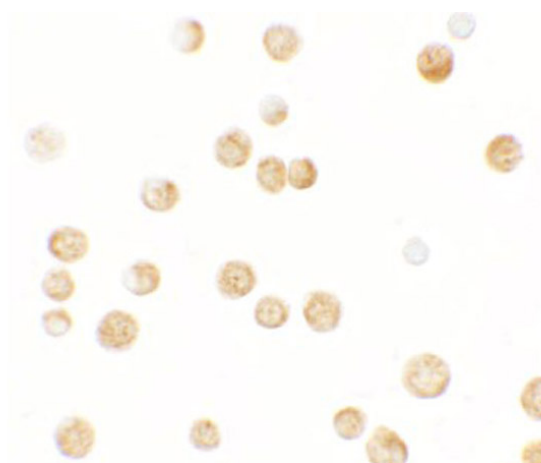
## Images

**Immunofluorescence Microscopy**

Immunofluorescence results of GBP6 in HeLa cells with Anti-GBP6 antibody at 5 $\mu$ g/mL.

**Western Blot**

Western blot results of Anti-GBP6 antibody. Lane A: HeLa cell lysate. Lane B: HeLa cell lysate in the presence of blocking peptide. Primary Antibody: Anti-GBP6 at 0.5  $\mu$ g/mL.

**Immunocytochemistry**

Immunocytochemistry results of GBP6 in HeLa cells with Anti-GBP6 antibody at 2.5  $\mu$ g/mL.

**Disclaimer**

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