

## Growth Hormone (Pituitary Marker) Antibody

Mouse Monoclonal Antibody [Clone GH/1371]

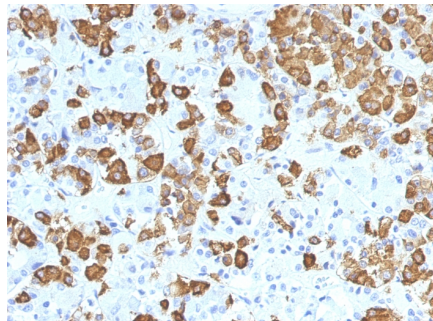
| Catalog No      | Format                            | Size     |
|-----------------|-----------------------------------|----------|
| 2688-MSM1-P0    | Purified Ab with BSA and Azide    | 200ug/ml |
| 2688-MSM1-P1    | Purified Ab with BSA and Azide    | 200ug/ml |
| 2688-MSM1-P1ABX | Purified Ab WITHOUT BSA and Azide | 1.0mg/ml |

| Applications               | Tested Dillution |
|----------------------------|------------------|
| Immunohistochemistry (IHC) | 1-2ug/ml         |

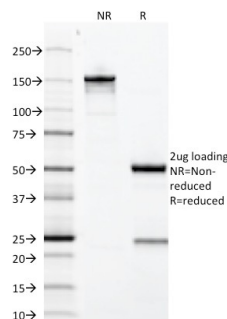
| Product Details        |   |
|------------------------|---|
| Clone                  | GH/1371   |
| Gene Name              | GH1   |
| Immunogen              | A recombinant fragment (around aa58-187) of human Growth Hormone (GH) protein (exact sequence is proprietary) |
| Host                   | Mouse   |
| Clonality              | Monoclonal  |
| Isotype / Light Chain  | IgG2b / Kappa   |
| Mol. Weight of Antigen | 20kDa   |
| Cellular Localization  | Secreted  |
| Species Reactivity     | Human   |
| Positive Control       | Pituitary cells. Human pituitary tissue (IHC).  |

*\*Optimal dilution for a specific application should be determined.*

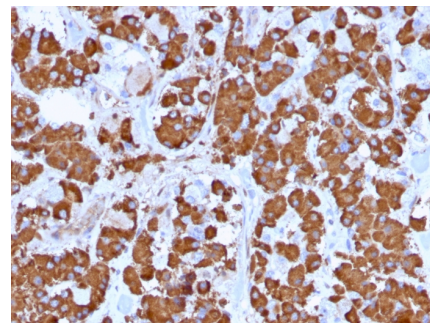
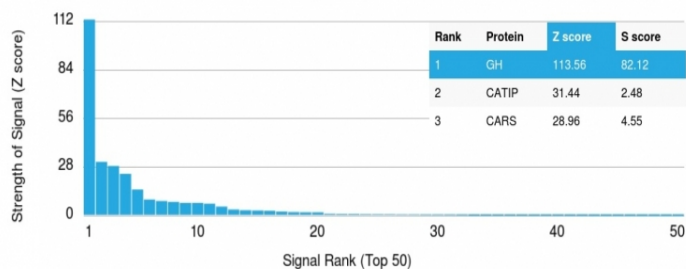
### Product Images for Growth Hormone (Pituitary Marker) Antibody



Formalin-fixed, paraffin-embedded human Pituitary stained with Growth Hormone Monoclonal Antibody (GH/1371).



SDS-PAGE Analysis of Purified Growth Hormone Mouse Monoclonal Antibody (GH/1371). Confirmation of Integrity and Purity of Antibody.



Formalin-fixed, paraffin-embedded human Pituitary stained with Growth Hormone Monoclonal Antibody (GH/1371).

Analysis of Protein Array containing more than 19,000 full-length human proteins using Growth Hormone Mouse Monoclonal Antibody (GH/1371). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to be specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.

### Specificity & Comments

Pituitary growth hormone (GH) plays a crucial role in stimulating and controlling the growth, metabolism and differentiation of many mammalian cell types by modulating the synthesis of multiple mRNA species. These effects are mediated by the binding of GH to its membrane-bound receptor, GHR, and involve a phosphorylation cascade that results in the modulation of numerous signaling pathways. GH is synthesized by acidophilic or somatotrophic cells of the anterior pituitary gland. Anti-GH is a useful marker in classification of pituitary tumors and the study of pituitary disease (acromegaly).

### Research Areas

Cardiovascular, Endocrine, Immunology, AKT Signaling, Cytokine Signaling

### Known Applications & Suggested Dilutions

Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 min at RT)(Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes) | Optimal dilution for a specific application should be determined.

### Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis.

There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

### Supplied As

200ug/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

### Storage and Stability

Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.