Growth Hormone (Clone ZM140)

Mouse Monoclonal Antibody

Specificity: Human. Others not tested

Immunogen: A recombinant human Growth Hormone (GH) fragment (aa58-187)

Ig Class: IgG2b/κ

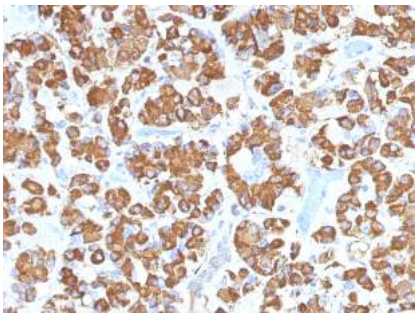
Storage: Store vial at 4°C. When stored at 2-8°C, this antibody is stable for 24 months

Staining procedures: Use formalin-fixed and paraffin-embedded sections. *Retrieval conditions*: Pretreatment of deparaffinized tissue with heat-induced epitope retrieval is recommended. *Detection methods:* Polymer anti-mouse/rabbit Ig detection system. *Working dilution*: 1:100-200; *Positive Control:* Pituitary. *Cellular Localization*: Cytoplasmic.

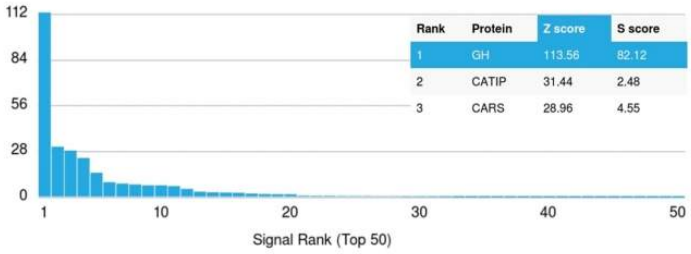
Description: Pituitary growth hormone (GH) plays a crucial role in stimulating and controlling the growth, metabolism and differentiation of many mammalian cell types by modulating the synthesis of multiple mRNA species. These effects are mediated by the binding of GH to its membrane-bound receptor,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

Intended Use: This antibody is intended for in vitro diagnostic (IVD) use. Growth hormone (clone ZM140) mouse monoclonal primary antibody is intended for laboratory use in the detection of growth hormone in formalin-fixed, paraffin-embedded tissue by immunohistochemical (IHC) staining. The staining results should be interpreted by qualified pathologists in conjunction with the patient's relevant clinical history.

Supplied As: Purified antibody in Tris-HCl buffer containing stabilizing protein and <0.1% sodium azide.



Formalin-fixed, paraffin-embedded human pituitary stained with anti-GH antibody using peroxidase-conjugate and DAB chromogen. Note the cytoplasmic staining of tumor cells



References:

1. Al-Brahim NY, et al. *J Clin Pathol*. 2006; 59:1245-53.
2. Fukaya T, et al. *Cancer*. 1980; 45:1598-1603.
3. Kovacs K, et al. *Virch Arch Pathol Anat*. 1982; 395:59-68.

REF **Z2451 (1.0 ml) (Concentrate); Z2451B (1mg/1ml)**

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CE IVD

C (concentrate) DIL (dilution) S (supernatant) P (predilute)

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