

**IGF-I Ab-1 (Clone M23)**

Mouse Monoclonal Antibody

Cat. #MS-1508-P0, -P1, or -P (0.1ml, 0.5ml, or 1.0ml at 200µg/ml) (Purified Ab with BSA and Azide)

Cat. #MS-1508-P1BX or -PBX (0.1ml or 0.2ml at 1.0mg/ml) (Purified Ab without BSA)

Please note this data sheet has been changed effective February 20, 2017

**Description:** Insulin-like growth factor 1 (IGF-1) is involved in regulation of neuronal growth and development in central and peripheral nervous system. It is known to protect neurons against cell death induced by amyloidogenic derivatives, glucose or serum deprivation through pathways involving AKT kinase and transcription factor FKHL1 phosphorylation. Activation of the insulin-like growth factor system has emerged as a key factor for tumor progression and resistance to apoptosis in many cancers like breast and thyroid cancers.

**Mol. Wt. of Antigen:** ~7.6kDa**Species Reactivity:** Human, Mouse, and Rat. Others-not tested**Clone Designation:** M23**Ig Isotype:** IgG<sub>1</sub>**Immunogen:** Purified human IGF-1.**Applications and Suggested Dilutions:**

- Western Blotting (Ab 1-2µg/ml for 2hrs at RT)

The optimal dilution for a specific application should be determined by the investigator.

**Positive Control:** Pancreas. IGF-1 recombinant protein.**Cellular Localization:** Cytoplasmic**Supplied As:**

200µg/ml of antibody purified from tissue culture supernatant by Protein G chromatography. Prepared in 10mM PBS, pH 7.4, with 0.2% BSA and 0.09% sodium azide. Also available without BSA at 1mg/ml.

**Storage and Stability:**

Ab with sodium azide is stable for 24 months when stored at 2-8°C. Antibody WITHOUT sodium azide is stable for 36 months when stored at below 0°C.

**Suggested References:**

1. Rotwein p, et al. (1986) J. Biol. Chem 261: 4828-4832.
2. Sandberg-Nordqvist A C, et al. (1993) Cancer Res. 53: 2475-2478.
3. Zheng W H, et al. (2000) J Neural.Transm. Suppl 2000: 261-272.

**Limitations and Warranty:**

Our products are intended FOR RESEARCH USE ONLY and are not approved for clinical diagnosis, drug use or therapeutic procedures. No products are to be construed as a recommendation for use in violation of any patents. We make no representations, warranties or assurances as to the accuracy or completeness of information provided on our data sheets and website. Our warranty is limited to the actual price paid for the product. NeoMarkers is not liable for any property damage, personal injury, time or effort or economic loss caused by our products.

**Material Safety Data:**

This product is not licensed or approved for administration to humans or to animals other than the experimental animals. Standard Laboratory Practices should be followed when handling this material. The chemical, physical, and toxicological properties of this material have not been thoroughly investigated. Appropriate measures should be taken to avoid skin and eye contact, inhalation, and ingestion. The material contains 0.09% sodium azide as a preservative. Although the quantity of azide is very small, appropriate care should be taken when handling this material as indicated above. The National Institute of Occupational Safety and Health has issued a bulletin citing the potential explosion hazard due to the reaction of sodium azide with copper, lead, brass, or solder in the plumbing systems. Sodium azide forms hydrazoic acid in acidic conditions and should be discarded in a large volume of running water to avoid deposits forming in metal drainage pipes.

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