

Chromogranin A / CHGA (Neuroendocrine Marker) Antibody

Mouse Monoclonal Antibody [Clone CHGA/4222]

Catalog No	Format	Size
1113-MSM22-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
1113-MSM22-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
1113-MSM22-P1ABX	Purified Ab WITHOUT BSA or Azide at 1.0mg/ml	100 ug

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

Product Details

Clone	CHGA/4222
Immunogen	Recombinant fragment (around aa250-450) of human CHGB protein
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG1
Mol. Weight of Antigen	50.69kDa
Cellular Localization	Cytoplasmic vesicle, Neuronal dense core vesicle, Secreted, Secretory vesicle
Species Reactivity	Human
Positive Control	Detected in cerebrospinal fluid (at protein level) (PubMed:25326458)

*Optimal dilution for a specific application should be determined.

Product Images for Chromogranin A / CHGA (Neuroendocrine Marker) Antibody

Specificity & Comments

Strongly inhibits glucose induced insulin release from the pancreas., Inhibits catecholamine release from chromaffin cells and noradrenergic neurons by acting as a non-competitive nicotinic cholinergic antagonist (PubMed:15326220). Displays antibacterial activity against Gram-positive bacteria *S.aureus* and *M.luteus*, and Gram-negative bacteria *E.coli* and *P.aeruginosa* (PubMed:15723172, PubMed:24723458). Can induce mast cell migration, degranulation and production of cytokines and chemokines (PubMed:21214543). Acts as a potent scavenger of free radicals in vitro (PubMed:24723458). May play a role in the regulation of cardiac function and blood pressure (PubMed:18541522)., Regulates granule biogenesis in endocrine cells by up-regulating the transcription of protease nexin 1 (SERPINE2) via a cAMP-PKA-SP1 pathway. This leads to inhibition of granule protein degradation in the Golgi complex which in turn promotes granule formation.

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 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.