

Basic Information

Product Name	Anti-Chromogranin A/CHGA Antibody		
Gene Name	CHGA		
Source	Rabbit		
Clonality	Polyclonal		
Isotype	IgG		
Species Reactivity	human, mouse, rat, rabbit		
Tested Application	WB, IHC		
Contents	500 ug/ml antibody with PBS, 0.02% NaN ₃ , 1 mg/ml BSA and 50% glycerol.		
Immunogen	E.coli-derived human Chromogranin A recombinant protein (Position: K321-G457). Human Chromogranin A shares 80% and 82% amino acid (aa) sequences identity with mouse and rat Chromogranin A, respectively.		
Concentration	500 ug/ml		
Purification	Immunogen affinity purified.		
Observed MW	70-80 kDa		
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC): 1:50-400 (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.		

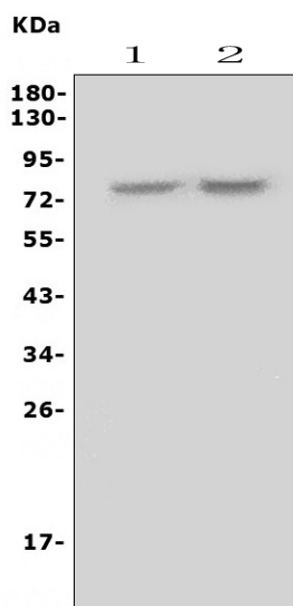
Storage

12 months from date of receipt, -20°C as supplied. 6 months 2 to 8°C after reconstitution. Avoid repeated freezing and thawing.

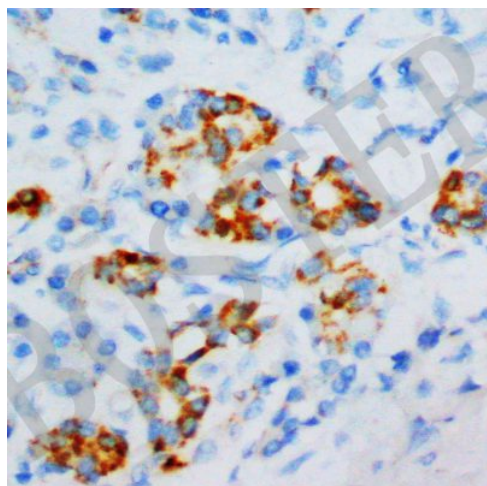
Background Information

CHGA, also known as CGA or chromogranin A, is an acidic protein costored and coreleased with catecholamines from storage granules in the adrenal medulla. CHGA is a member of the granin family of neuroendocrine secretory protein, It is located in secretory vesicles of neurons and endocrine cells. In humans, CHGA protein is encoded by the CHGA gene, and it is mapped to 14q32.12. CHGA gene product is a precursor to three biologically active peptides: vasostatin, pancreastatin, and parastatin. These peptides negatively modulate the neuroendocrine function of the releasing cell (autocrine) or nearby cells (paracrine).

Selected Validation Data



Western blot analysis of Chromogranin A/CHGA using anti-Chromogranin A/CHGA antibody (BA0240). The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human U-87MG whole cell lysates, Lane 2: human PC-3 whole cell lysates. After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-Chromogranin A/CHGA antigen affinity purified polyclonal antibody (BA0240) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for Chromogranin A/CHGA at approximately 70-80 kDa. The expected band size for Chromogranin A/CHGA is at 51 kDa.



IHC analysis of Chromogranin A/CHGA using anti-Chromogranin A/CHGA antibody (BA0240). Chromogranin A/CHGA was detected in a paraffin-embedded section of pancreatic cancer tissue. The tissue section was incubated with rabbit anti-Chromogranin A/CHGA Antibody (BA0240) at a dilution of 1:200 and developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB (Catalog # AR1027) as the chromogen.