

## Basic Information

Product Name	Anti-Chromogranin A/CHGA Antibody		
Gene Name	CHGA		
Source	Rabbit		
Clonality	Polyclonal		
Isotype	IgG		
Species Reactivity	mouse, rat		
Tested Application	WB, ICC/IF		
Contents	500 ug/ml antibody with PBS, 0.02% NaN <sub>3</sub> , 1 mg/ml BSA and 50% glycerol.		
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of rat Chromogranin A/Chga, which shares 77.8% and 100% amino acid (aa) sequence identity with human and mouse CHGA, respectively.		
Concentration	500 ug/ml		
Purification	Immunogen affinity purified.		
Observed MW	70-80 kDa		
Dilution Ratios	Western blot (WB): 1:500-2000 Immunocytochemistry/Immunofluorescence (ICC/IF):1:50-400		

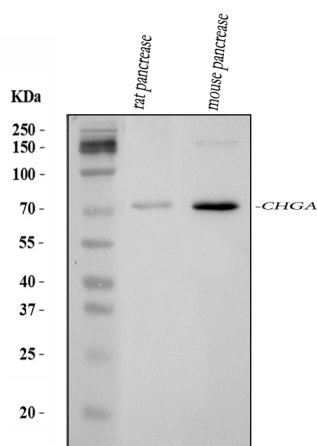
## Storage

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

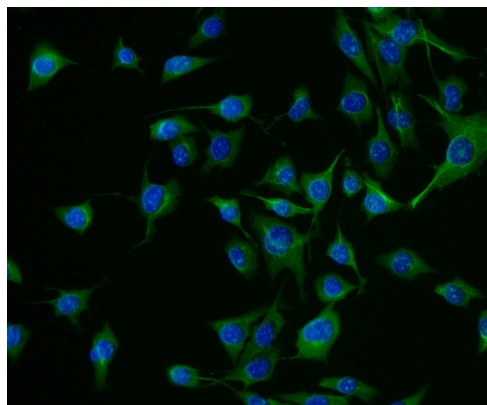


Western blot analysis of anti-Chromogranin A/CHGA antibody (A01256-3). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: rat pancreas tissue lysates,

Lane 2: mouse pancreas tissue 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 (A01256-3) 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 52 kDa.



IF analysis of Chromogranin A/CHGA using anti-Chromogranin A/CHGA antibody (A01256-3).

Chromogranin A/CHGA was detected in an immunocytochemical section of RM-1 cells. DyLight®488 Conjugated Goat Anti-Rabbit IgG (Green) (Catalog # BA1127) was used as secondary antibody. The section was counterstained with DAPI (Catalog # AR1176) (Blue).