



Anti- human Chromogranin A (CHGA) Mouse Monoclonal Primary Antibody

Clone: UMAB109

IVD

REF CE00020

CATALOG NUMBER

C0020MA01-MA 0.1 mL
C0020MA05-MA 0.5 mL
C0020MA10-MA 1.0 mL

ENGLISH

Intended use

Anti- human Chromogranin A (Clone: UMAB109) Mouse Monoclonal Primary Antibody is intended for detection of Chromogranin A protein expression in frozen or formalin fixed human tissues and cells. The clinical interpretation of any positive staining or its absence should be complemented by morphological and histological studies with proper controls. Evaluations should be made within the context of the patient's clinical history and other diagnostic tests by a qualified pathologist. The antibody is intended for *in vitro* diagnostic (IVD) use.

Background

Chromograinin A is a member of the chromogranin/secretogranin family of neuroendocrine secretory proteins. It is found in secretory vesicles of neurons and endocrine cells. It is a precursor to three biologically active peptides; vasostatin, pancreastatin, and parastatin. These peptides act as autocrine or paracrine negative modulators of the neuroendocrine system. Other peptides, including chromostatin, beta-granin, WE-14 and GE-25, are also derived from the full-length protein. However, biological activities for these molecules have not been shown. [provided by RefSeq, Jul 2008].

Alternative names: CGA, CHGA

Reagent provided

Anti-human Chromogranin A Mouse Monoclonal Primary Antibody (Clone: UMAB109) is provided in liquid form in 20mM Sodium phosphate, 150mM Sodium chloride, 0.2% BSA, 0.09% Sodium azide, pH 7.4. The isotype of the antibody is IgG1. The protein concentration is approximately 1.0 +/- 0.05 mg/mL.

For immunohistochemistry, the primary antibody may be used at a working dilution of 1:100 – 1:200 for formalin-fixed, HIER pretreated, paraffin-embedded human tissue. It can be dependent upon the detection system used. These are guidelines only, and optimal dilutions should be determined by the individual laboratory.

Immunogen

Full length human recombinant protein of human Chromogranin A (NP_001266) produced in HEK293T cell.

Specificity

The specificity of the anti- human Chromogranin A Mouse Monoclonal Primary Antibody was established on known positive carcinoid, pancreas and negative placenta. The anti-human Chromogranin A presented no staining on formalin fixed, human placenta and positive staining on formalin fixed, human carcinoid and pancreas tissue using immunohistochemical (IHC) test methods.

Materials Required but Not Supplied

Antibody diluent, HIER solution, Antibody detection kits, Chromogen, Staining reagents, negative and positive tissue control slides are not included.

Precautions

1. For use by trained professionals only.
2. This product contains sodium azide (NaN_3), a chemical highly toxic in pure form. At product concentrations, though not classified as hazardous, NaN_3 may react with lead and copper plumbing to form highly explosive build-ups of metal azides. Upon disposal, flush with large volumes of water to prevent metal azide build-up in plumbing.
3. Wear appropriate Personal Protective Equipment to avoid contact with eyes and skin.
4. Unused reagents should be disposed of according to local, State, and Federal regulations.

Storage

Store at 2-8°C. Do not use the product past the expiration date indicated on the label. If reagents are stored under any other conditions, the end user must verify the acceptability of those conditions. There are no obvious signs to indicate instability of this product therefore, positive and negative controls should be run simultaneously with patient specimens.

Specimen Preparation

Paraffin Sections

Anti- human Chromogranin A Mouse Monoclonal Primary Antibody can be used on formalin-fixed, paraffin-embedded tissue sections at a working dilution of 1:100 to 1:200. Anti- human Chromogranin A Mouse Monoclonal Primary Antibody (Clone: UMAB109) working dilution requires 10 minutes of pretreatment with Heat Induced Epitope Retrieval (HIER) for staining. We recommend using HIER EDTA pH 8.0, which showed optimal staining at a dilution of 1:200 on human carcinoid and pancreas and negative staining on normal human placenta. The dilutions are estimates; the actual staining results may vary due to reagents and detection protocols used. Validation of antibody performance and final protocol are the responsibility of the end user.

Staining procedure

Manual Staining Procedure

1. Deparaffinize slides.
2. Submerge slides in peroxidase quenching solution for ~10 minutes and rinse with PBS-T 3 times, 2 minutes each.
3. Heat Induced Epitope Retrieval is required for this antibody.
4. Apply serum blocking solution.[Optional]
5. Apply primary antibody and incubate for 30-60 minutes at room temperature. After incubation wash with PBS-T 3 times, 2 minutes each.
6. Apply secondary antibody and incubate according to the data sheet of the detection system. Wash with PBS-T 3 times, 2 minutes each.
7. Apply enzyme conjugate and incubate according to data sheet of detection system. Wash with PBS-T 3 times, 2 minutes each.
8. Apply chromogen and incubate 5-10 minutes and rinse with distilled water.

Staining interpretation

The cellular staining pattern for Anti- human Chromogranin A Mouse Monoclonal Primary Antibody is granular cytoplasmic.

Performance Characteristics

Predicted Staining in Normal Tissue/Cells

Placental tissue was shown to be negative for this antibody.

Predictive Staining in Tumor

Anti- human Chromogranin A Mouse Monoclonal (Clone: UMAB109) produced strong cytoplasmic staining when screened on human pancreas and carcinoid tumor.

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