Product datasheet

Anti-Gelsolin antibody ab53560

Overview

Product name                        Anti-Gelsolin antibody
Description                        Goat polyclonal to Gelsolin
Host species                       Goat
Specificity                        This antibody is expected to recognize both reported isoforms (NP_000168.1 and NP_937895.1).
Tested applications                Suitable for: WB
Species reactivity                Reacts with: Human
                                            Predicted to work with: Mouse, Rat, Horse, Cow, Dog, Pig
Immunogen                         Synthetic peptide corresponding to Human Gelsolin aa 655-666 (internal sequence).
                                            Sequence: C-PRLDKKKMDAHP
Positive control                   WB: Human Colorectal cancer lysate in RIPA buffer.

Properties

Form                                Liquid
Storage instructions                Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer                      pH: 7.30
                                            Preservative: 0.02% Sodium azide
                                            Constituents: 0.5% BSA, 0.5% Tris buffered saline
Purity                              Immunogen affinity purified
Purification notes                 Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
Clonality                          Polyclonal
Isotype                            IgG

Applications
**Function**
Calcium-regulated, actin-modulating protein that binds to the plus (or barbed) ends of actin monomers or filaments, preventing monomer exchange (end-blocking or capping). It can promote the assembly of monomers into filaments (nucleation) as well as sever filaments already formed. Plays a role in ciliogenesis.

**Tissue specificity**
Phagocytic cells, platelets, fibroblasts, nonmuscle cells, smooth and skeletal muscle cells.

**Involvement in disease**
Defects in GSN are the cause of amyloidosis type 5 (AMYL5) [MIM:105120]; also known as familial amyloidosis Finnish type. AMYL5 is a hereditary generalized amyloidosis due to gelsolin amyloid deposition. It is typically characterized by cranial neuropathy and lattice corneal dystrophy. Most patients have modest involvement of internal organs, but severe systemic disease can develop in some individuals causing peripheral polyneuropathy, amyloid cardiomyopathy, and nephrotic syndrome leading to renal failure.

**Sequence similarities**
Belongs to the villin/gelsolin family.

**Post-translational modifications**
Phosphorylation on Tyr-86, Tyr-409, Tyr-465, Tyr-603 and Tyr-651 in vitro is induced in presence of phospholipids.

**Cellular localization**
Cytoplasm > cytoskeleton and Secreted.

### Images

**Anti-Gelsolin antibody (ab53560) at 1 µg/ml + Human Colorectal cancer lysate in RIPA buffer at 35 µg**

Developed using the ECL technique.

**Predicted band size:** 86 kDa  
**Observed band size:** 90 kDa  
why is the actual band size different from the predicted?

Primary incubation: 1 hour at room temperature.

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