CAPNS2 polyclonal antibody

Catalog: BS60567 Host: Rabbit Reactivity: Human,Mouse,Rat

BackGround:

The Calpain family of proteins are calcium-regulated thiol proteases which have broad endopeptidase activity throughout the body. Calpain small subunit 2, also known as CSS2 or CAPNS2, is a calcium-dependent protease that is expressed ubiquitously in the cytoplasm. Part of a heterodimer composed of a small subunit and a large subunit, CSS2 catalyzes proteolysis of various proteins involved in cytoskeletal remodeling and signal transduction. CSS2 also acts as a chaperone to the larger subunit, mediating its correct folding and conformation. When bound as a heterodimer, CSS2 is thought to keep the catalytic activity of the large subunit dormant. After binding calcium, CSS2 is released from the complex, thereby activating the large subunit and allowing CSS2 to translocate from the cytoplasm to the cell membrane. Defects in the gene encoding CSS2 result in incorrect calpain activity and retarded fetal development, suggesting that CSS2 expression is essential for proper growth.

Product:

Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

Molecular Weight:

~ 28 kDa

Swiss-Prot:

Q96L46

Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

Applications:

WB: 1:500~1:1000

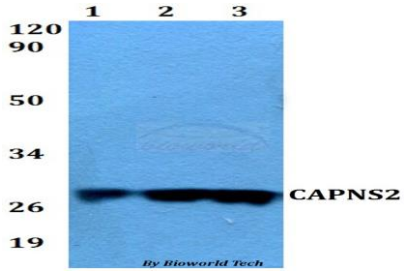
Storage&Stability:

Store at 4℃ short term. Aliquot and store at -20℃ long term. Avoid freeze-thaw cycles.

Specificity:

CAPNS2 polyclonal antibody detects endogenous levels of CAPNS2 protein.

DATA:



Western blot (WB) analysis of CAPNS2 polyclonal antibody at 1:500 dilution

Lane1:Hela whole cell lysate

Lane2:sp2/0 whole cell lysate

Lane3:H9C2 whole cell lysate

Note:

For research use only, not for use in diagnostic procedure.

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