CAPN15 polyclonal antibody

Catalog: BS33499 Host: Rabbit Reactivity: Human, Mouse

BackGround:

Calpain-15: Calcium-dependent cysteine protease that functions as a non-proteasomal, ubiquitin-directed protease regulating cell adhesion through cleavage of E-cadherin/CDH1. Binds to ubiquitinated proteins via its N-terminal, preferentially recognizing longer polyubiquitin chains including both 'Lys-48- and 'Lys-63'-linked chains. Recognizes the ubiquitinated E-cadherin-catenin complex and cleaves E-cadherin in a calcium- and ubiquitination-dependent manner resulting in lysosomal degradation of the resultant fragment . Plays a critical role in eye, brain and cerebellar development (By similarity). In the developing brain, may regulate transcription factor abundance including PAX2 and PAX5 levels. Additional putative substrates include P-cadherin/CDH3, DCX and TUBB3 (By similarity)

Product:

1mg/ml in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.

Molecular Weight:

~117 kDa

Swiss-Prot:

O75808

Purification&Purity:

The antibody was purified by immunogen affinity chromatography.

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:

Recognizes endogenous levels of CAPN15 protein

DATA:

Western blot analysis of CES2 expression in rat kidney (A) whole cell lysates.

Immunohistochemical analysis of CES2 staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

Immunofluorescent analysis of CES2 staining in HepG2 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 ℃ in a hidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).

Note:

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

Bioworld Technology, Inc.
Add: 1660 South Highway 100, Suite 500 St. Louis Park, MN 55416,USA.
Email: info@bioworlde.com
Tel: 6123263284
Fax: 6122933841

Bioworld technology, co. Ltd.
Add: No 9, weidi road Qixia District Nanjing, 210046, P. R. China.
Email: info@biogot.com
Tel: 0086-025-68037686
Fax: 0086-025-68035151