Product datasheet

Anti-Caspase 5/CASP5 Antibody

Catalog Number: *A05259-4*

BOSTER
antibody and ELISA experts
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Basic Information

Product Name	Anti-Caspase 5/CASP5 Antibody
Gene Name	CASP5
Source	Rabbit
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB, IHC, ICC/IF, FCM, ELISA
Contents	500 ug/ml antibody with PBS， 0.02% NaN3 , 1 mg BSA and 50% glycerol.
Immunogen	E.coli-derived human Caspase-5/CASP5 recombinant protein (Position: D137-N434).
concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	50KD
Dilution Ratios	Western blot(WB): 1:500-2000 Immunohistochemistry in paraffin section (IHC): 1:50-400 Immunocytochemistry/Immunofluorescence (ICC/IF): 1:50-400 Flow cytometry (FCM): 1-3 μg/1x10^6 cells ELISA: 1:100-1000 (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.

Storage

12 months from date of receipt，-20℃ as supplied. 6 months 2 to 8℃ after reconstitution. Avoid repeated freezing and thawing.

Background Information

This gene encodes a member of the cysteine-aspartic acid protease (caspase) family. Sequential activation of caspases plays a central role in the execution-phase of cell apoptosis. Caspases exist as inactive proenzymes which undergo proteolytic processing at conserved aspartic residues to produce two subunits, large and small, that dimerize to form the active enzyme. Overexpression of the active form of this enzyme induces apoptosis in fibroblasts. Max, a central component of the Myc/Max/Mad transcription regulation network important for cell growth, differentiation, and apoptosis, is cleaved by this protein; this process requires Fas-mediated dephosphorylation of Max. The expression of this gene is regulated by interferon-gamma and lipopolysaccharide. Alternatively spliced transcript variants have been identified for this gene.

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Selected Validation Data

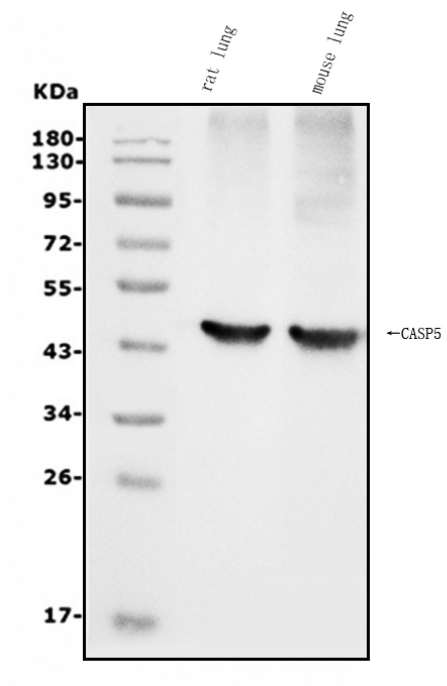

Figure 1. Western blot analysis of anti- CASP5 antibody (A05259-4). The sample well of each lane was loaded with 50ug of sample under reducing conditions.Lane 1: rat lung tissue lysates,Lane 2: mouse lung tissue lysates.Use rabbit anti- CASP5 1:1000, probed with a goat anti-rabbit IgG-HRP secondary antibody. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002). A specific band was detected for CASP5 at approximately 50KD. The expected band size for CASP5 at 50KD.

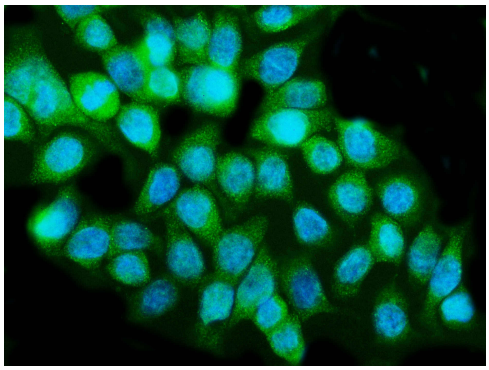

Figure 2. ICC analysis using anti- CASP5 antibody (A05259-4). was detected in immersion fixed CACO-2 cell line. Cells were stained using the Dylight488-conjugated Anti-rabbit IgG Secondary Antibody (green)(Catalog # BA1127) and counterstained with DAPI (blue).

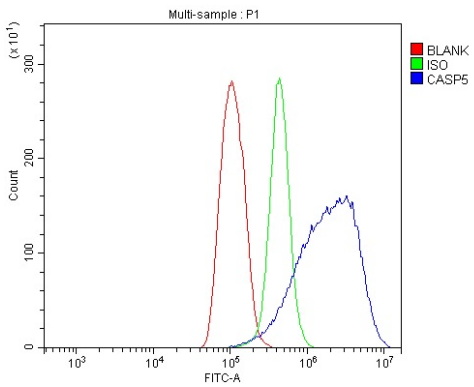

Figure 3. Flow cytometry analysis of THP-1 cell (1x106) DyLight 488 conjugated goat anti- rabbit IgG(blue) was used as secondary antibody.Isotype control antibody (Green line) was rabbit IgG DyLight 488. Unlabelled sample (Red line).

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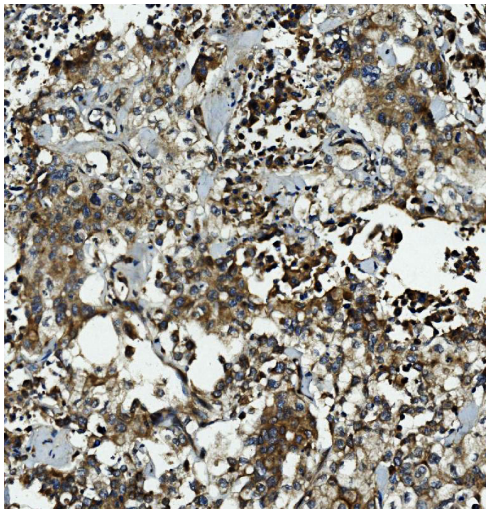

Figure 4. IHC analysis using anti- CASP5 antibody (A05259-4). detected in paraffin-embedded section of human gastric cancer tissue. Biotinylated goat anti-rabbit IgG was used as secondary antibody. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB as the chromogen.