

Caspase-1 p20 Polyclonal Antibody

Catalog: BS66176

Host: Ra

Rabbit

Reactivity: Human, Mouse, Rat

BackGround:

Caspase-1, interleukin-1ß converting enzyme or (ICE/ICE α), is a class I cysteine protease, which also includes caspases -4, -5, -11, and -12. Caspase-1 cleaves inflammatory cytokines such as pro-IL-1 ß and interferon-y inducing factor (IL-18) into their mature forms. Like other caspases, caspase-1 is proteolytically activated from a proenzyme to produce a tetramer of its two active subunits, p20 and p10. Caspase-1 has a large amino-terminal pro-domain that contains a caspase recruitment domain (CARD). Overexpression of caspase-1 can induce apoptosis. Mice deficient in caspase-1, however, have no overt defects in apoptosis but do have defects in the maturation of pro-IL-1ß and are resistant to endotoxic shock. At least six caspase-1 isoforms have been identified, including caspase-1 α , β , γ , δ , ϵ , and ζ . Most caspase-1 isoforms (α , β , γ , and δ) produce products between 30-48 kDa and induce apoptosis upon overexpression. Caspase-1 ɛ typically contains only the p10 subunit, does not induce apoptosis, and may act as a dominant negative. The widely expressed ζ isoform of caspase-1 induces apoptosis and lacks 39 amino-terminal residues found in the α isoform. Activation of caspase-1 occurs through an oligomerization molecular platform designated the "inflammasome" that includes caspase-5, Pycard/Asc, and NALP1.

Product:

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

Molecular Weight:

~ 22 kDa

Swiss-Prot:

P29466

Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific im-

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MN 55416,USA. Email: <u>info@bioworlde.com</u> Tel: 6123263284 Fax: 6122933841 munogen and the purity is > 95% (by SDS-PAGE).

Applications:

WB: 1:500-1:1000

IHC: 1:100-1:200

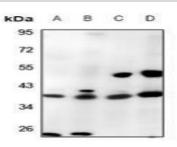
Storage&Stability:

Store at $4 \,^{\circ}{\rm C}$ short term. Aliquot and store at $-20 \,^{\circ}{\rm C}$ long term. Avoid freeze-thaw cycles.

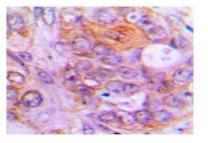
Specificity:

Caspase-1 p20 polyclonal antibody detects endogenous levels of Caspase-1 protein.

DATA:



Western blot analysis of Caspase 1 expression in HepG2 (A), HEK293T (B), MEF (C), H9C2 (D) whole cell lysates.



Immunohistochemical analysis of Caspase 1 staining in human lung cancer formalin fixed paraffin embedded tissue section.

Note:

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

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