Rabbit Anti-Human Caspase 1 (Interleukin-1 Beta Converting Enzyme (ICE))
Polyclonal Antibody

CATALOG #: E3910 0.1 ml immunogen affinity purified rabbit polyclonal antibody in PBS/1% BSA buffer pH 7.6 with less than 0.1% sodium azide.
E3914 1 ml immunogen affinity purified rabbit polyclonal antibody in PBS/1% BSA buffer pH 7.6 with less than 0.1% sodium azide.
E3911 7 ml pre-diluted immunogen affinity purified rabbit polyclonal antibody in TBS/1% BSA buffer pH 7.6 with less than 0.1% sodium azide.


CLONE: N/A

IMMUNOGEN: Synthetic peptide derived from internal region of human caspase 1 protein.

IG ISOTYPE: Rabbit IgG

EPITOPE: Internal region

MOLECULAR WEIGHT: 45kDa (pro), 10 and 20kDa (active)

SPECIES REACTIVITY: Human (tested). Mouse and rat (by sequence homology). Others not tested.

DESCRIPTION: Caspase 1 / ICE (Interleukin-1Beta Converting Enzyme) (ICE) is expressed as a pro-enzyme of 45kDa in many tissues. Upon stimulus, it gets activated by proteolytic cleavage. Active caspase 1 is a tetramer of two subunits p10 and p20 in 2:2 proportion. Caspase 1 (cystein aspartic-specific protease 1) cleaves its substrates after an aspartate residue. It cleaves interleukin beta into its active form which further exerts its pro-inflammatory effects. Over-expression of caspase 1 can induce apoptosis in fibroblast, which can be inhibited by overexpression of Crm A, a protein from pox virus.

APPLICATIONS: Immunohistochemistry (IHC)

IHC PROCEDURE: Specimen Preparation: Formalin-fixed, paraffin-embedded tissues are suitable for use with this primary antibody.

Deparaffinization: Deparaffinize slides using xylene or xylene alternative and graded alcohols.

Antibody Dilution: If using the concentrate format of this product, dilute the antibody 1:50. The dilutions are estimates; actual results may differ because of variability in methods and protocols.

Antigen Retrieval: Boil tissue sections in 10mM Citrate buffer, pH 6.0 for 10 min followed by cooling at RT for 20 min.

Primary Antibody Incubation: Incubate for 10 minutes at RT.

Slide Washing: Slides must be washed in between steps. Rinse slides with PBS/0.05% Tween.

Visualization: Detect the antibody as instructed by the instructions provided with the visualization system.

POSITIVE CONTROL: Placenta

CELLULAR LOCALIZATION: Cytoplasm and nucleus

STORAGE & STABILITY: Store at 2-8°C. Do not freeze. The user must validate any other storage conditions. When properly stored, the reagent is stable to the date indicated on the label. Do not use the reagent beyond the expiration date.

There are no definitive signs to indicate instability of this product; therefore, positive and negative controls should be tested simultaneously with unknown specimens.

WARNINGS & PRECAUTIONS:
1. Avoid contact of reagents with eyes and mucous membranes. If reagents come into contact with sensitive areas, wash with copious amounts of water.
2. This product is harmful if swallowed.
3. Consult local or state authorities with regard to recommended method of disposal.
4. Avoid microbial contamination of reagents.