

COP Polyclonal Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP55364

Specification

COP Polyclonal Antibody - Product Information

| | |
|---------------------|---|
| Application | IHC-P, IHC-F, IF, ICC, E |
| Primary Accession | Q5EG05 |
| Reactivity | Chimpanzee |
| Host | Rabbit |
| Clonality | Polyclonal |
| Calculated MW | 23 KDa |
| Physical State | Liquid |
| Immunogen | KLH conjugated synthetic peptide derived from human CARD16 |
| Epitope Specificity | 51-150/197 |
| Isotype | IgG |
| Purity | affinity purified by Protein A |
| Buffer | 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Contains 1 CARD domain. |
| SIMILARITY | |
| Important Note | This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. |

Background Descriptions

Caspase inhibitor. Acts as a regulator of procaspase-1/CASP1 activation implicated in the regulation of the proteolytic maturation of pro-interleukin-1 beta (IL1B) and its release during inflammation. Inhibits the release of IL1B in response to LPS in monocytes. Also induces NF-kappa-B activation during the pro-inflammatory cytokine response. Also able to inhibit CASP1-mediated neuronal cell death, TNF-alpha, hypoxia-, UV-, and staurosporine-mediated cell death but not ER stress-mediated cell death. Acts by preventing activation of caspases CASP1 and CASP4, possibly by preventing the interaction between CASP1 and RIPK2.

COP Polyclonal Antibody - Additional Information

Gene ID 114769

Other Names

Caspase recruitment domain-containing protein 16, Caspase recruitment domain-only protein 1, CARD-only protein 1, Caspase-1 inhibitor COP, Pseudo interleukin-1 beta converting enzyme, Pseudo-ICE, Pseudo-IL1B-converting enzyme, CARD16, COP, COP1

Target/Specificity

Widely expressed. Expressed at higher level in placenta, spleen, lymph node and bone marrow. Weakly or not expressed in thymus.

Dilution

IHC-P~~N/A
IHC-F~~N/A
IF~~1:50~200
ICC~~N/A
E~~N/A

Storage

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

COP Polyclonal Antibody - Protein Information

Name CARD16

Synonyms COP, COP1

Function

Caspase inhibitor. Acts as a regulator of procaspase-1/CASP1 activation implicated in the regulation of the proteolytic maturation of pro-interleukin-1 beta (IL1B) and its release during inflammation. Inhibits the release of IL1B in response to LPS in monocytes. Also induces NF-kappa-B activation during the pro-inflammatory cytokine response. Also able to inhibit CASP1-mediated neuronal cell death, TNF-, hypoxia-, UV-, and staurosporine-mediated cell death but not ER stress-mediated cell death. Acts by preventing activation of caspases CASP1 and CASP4, possibly by preventing the interaction between CASP1 and RIPK2.

Tissue Location

Widely expressed. Expressed at higher level in placenta, spleen, lymph node and bone marrow. Weakly or not expressed in thymus.

COP Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

COP Polyclonal Antibody - Images