

CASP1 Conjugated Antibody

Catalog No: #C32096

Package Size: #C32096-AF350 100ul #C32096-AF405 100ul #C32096-AF488 100ul #C32096-AF555 100ul #C32096-AF594 100ul
 #C32096-AF647 100ul #C32096-AF680 100ul #C32096-AF750 100ul #C32096-Biotin 100ul #C32096-Conjugated 50ul

Orders: order@signalwayantibody.comSupport: tech@signalwayantibody.com

Description

Product Name	CASP1 Conjugated Antibody
Host Species	Rabbit
Clonality	Polyclonal
Applications	WB, IF
Species Reactivity	Hu Ms, Rt
Specificity	The antibody detects endogenous level of total CASP1 protein.
Immunogen Description	Recombinant protein of human CASP1.
Conjugates	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
Other Names	CASP1;ICE;IL1BC;P45;Caspase-1
Accession No.	Swiss-Prot#:P29466NCBI Gene ID:834
Calculated MW	45
Formulation	0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide
Storage	Store at 4°C in dark for 6 months

Application Details

WB: 1:50-1:200

IF:1:50-1:200

Product Description

Antibodies were purified by affinity purification using immunogen.

Background

Caspase-1, or interleukin-1 β converting enzyme (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 β and interferon- γ ; inducing factor (IL-18) into their mature forms (1,2). 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 (3). Mice deficient in caspase-1, however, have no overt defects in apoptosis but do have defects in the maturation of pro-IL-1 β and are resistant to endotoxic shock (4,5). At least six caspase-1 isoforms have been identified, including caspase-1 α , β , γ , δ , ϵ , and ζ (6). Most caspase-1 isoforms (α , β , γ , and δ ;) produce products between 30-48 kDa and induce apoptosis upon over-expression. Caspase-1 ϵ ; 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 (6). Activation of caspase-1 occurs through an oligomerization molecular platform designated the "inflammasome" that includes caspase-5, Pycard/Asc, and NALP1 (7).

Note: This product is for in vitro research use only and is not intended for use in humans or animals.