

## Human CASP4 Antibody Pair Set

**Catalog No.** E-KAB-0492

**Applications**

ELISA

**Synonyms**

Caspase-4;CASP-4;ICE and Ced-3 homolog 2;ICH-2;ICE ( rel ) -II;Mih1;Protease TX;ICH2;TX

### Kit components & Storage

Title	Specifications	Storage
Human CASP4 Capture Antibody	1 vial, 100 µg	Store at -20℃ for one year. Avoid freeze/thaw cycles.
Human CASP4 Detection Antibody (Biotin)	1 vial, 50 µL	Store at -20℃ for one year. Avoid freeze/thaw cycles.

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

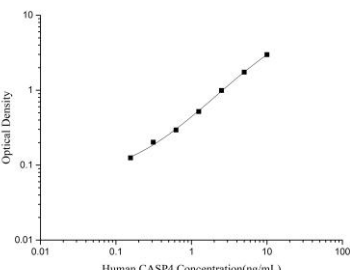
### Product Information

Items		Characteristic (E-KAB-0492)	
		Human CASP4 Capture Antibody	Human CASP4 Detection Antibody (Biotin)
Immunogen Information	Immunogen	Recombinant Human CASP4 protien	Recombinant Human CASP4 protien
	Swissprot	P49662	
Product details	Reactivity	Human	Human
	Host	Rat	Rat
	Conjugation	Unconjugated	Biotin
	Concentration	0.5 mg/mL	/
	Buffer	PBS with 0.04% Proclin 300; 50% glycerol; pH 7.5	PBS with 0.04% Proclin 300; 1% protective protein; 50% glycerol; pH 7.5
	Purify	Protein A or G	Protein A or G
	Specificity	Detects Human CASP4 in ELISAs.	

### For Research Use Only

## Applications

### Human CASP4 Sandwich ELISA Assay

	Recommended Concentration/Dilution	Reagent	Images
ELISA Capture	0.5-4 µg/mL	Human CASP4 Capture Antibody	
ELISA Detection	1:1000-1:10000	Human CASP4 Detection Antibody (Biotin)	

**Note:** This standard curve is only for demonstration purposes. A standard curve should be generated for each assay!

## Background

This gene encodes a member of the cysteine proteases that plays important roles in apoptosis, cell migration and the inflammatory response. The encoded protein mediates production of pro-inflammatory cytokines by macrophages upon bacterial infection. Mice lacking the encoded protein are resistant to endotoxic shock induced by lipopolysaccharide. A 5-bp deletion encompassing a splice acceptor junction resulting in alternate splicing and a shorter non-functional isoform in certain mouse strains has been described. Although its official nomenclature is "caspase 4, apoptosis-related cysteine peptidase", this gene and its encoded protein have historically been called caspase 11. This gene is present in a cluster of three caspase genes on chromosome 9.

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