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#7065

## c-IAP1 (D5G9) Rabbit mAb

**For Research Use Only. Not for Use in Diagnostic Procedures.**

<b>Applications:</b> W, IP	<b>Reactivity:</b> H	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 62	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #Q13490	<b>Entrez-Gene Id:</b> 329
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### Product Usage Information

#### Application

Western Blotting  
Immunoprecipitation

#### Dilution

1:1000  
1:50

### Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

### Specificity/Sensitivity

c-IAP1 (D5G9) Rabbit mAb recognizes endogenous levels of total c-IAP1 protein.

### Species predicted to react based on 100% sequence homology

Monkey

### Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Leu28 of human c-IAP1 protein.

### Background

The inhibitor of apoptosis protein (IAP) family consists of an evolutionarily conserved group of apoptosis inhibitors containing a conserved 70 amino acid BIR (baculovirus inhibitor repeat) domain (1,2). Human members of this family include c-IAP1, c-IAP2, XIAP, survivin, livin, and NAIP. Overexpression of IAP family members, particularly survivin and livin, in cancer cell lines and primary tumors suggests an important role for these proteins in cancer progression (3-5). In general, the IAP proteins function through direct interactions to inhibit the activity of several caspases, including caspase-3, caspase-7, and caspase-9 (5,6). In addition, binding of IAP family members to the mitochondrial protein Smac blocks their interaction with caspase-9, thereby allowing the processing and activation of the caspase (2).

### Background References

1. Deveraux, Q.L. and Reed, J.C. (1999) *Genes Dev* 13, 239-52.
2. Deveraux, Q.L. et al. (1998) *EMBO J* 17, 2215-23.
3. Altieri, D.C. et al. (1999) *Lab Invest* 79, 1327-33.
4. Tamm, I. et al. (2000) *Clin Cancer Res* 6, 1796-803.
5. Kasof, G.M. and Gomes, B.C. (2001) *J Biol Chem* 276, 3238-46.
6. Deveraux, Q.L. et al. (1997) *Nature* 388, 300-4.

### Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

### Western Blot Buffer

**IMPORTANT:** For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween@ 20 at 4°C with gentle shaking, overnight.

### Applications Key

**W:** Western Blotting **IP:** Immunoprecipitation

### Cross-Reactivity Key

**H:** Human

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