

Polyclonal Antibody to cIAP2



11175 Flintkote Ave., Suite E, San Diego, CA 92121
Tel: (858) 642-0978 Fax (858) 642-0937
Toll free: 1-888-723-GENE
E-mail: info@imgenex.com
web site: <http://www.imgenex.com>

Polyclonal Antibody to cIAP2

Catalog No : IMG-5718
Formulation : 50 ul neat serum containing 0.05% sodium azide.
Sodium azide is highly toxic.
Isotype : Rabbit Ig
Clone : N/A
Purification : Neat Serum
Species React : Human
Predicted React : Chicken, Cow, Mouse, Pig, Rat
Host : Rabbit

Application
Western blot analysis: 1:1000-1:2000
IHC (paraffin): 1:1000-1:5000
IHC (frozen): Users should optimize according to model and immunodetection system used (secondary reagents)
IP: 1:50-1:200

Storage
Aliquot and store at -20°C. Avoid repeated freeze-thaw cycles.

Recommended Positive Control: prostate colon spleen, many cancer cell lines

Background

cIAP2 (API2, BIRC3, HIAP2, MIHC) is a member of the family of inhibitor of apoptosis proteins (IAP). IAPs suppress mitochondria-dependent and -independent apoptosis by binding to and inhibiting caspases through their BIR domains (reviewed in Liston et al, 2003; Wright and Duckett, 2005). Resistance towards apoptosis is a hallmark of cancer cells, and overexpression of IAPs can contribute to the development of cancer through inhibiting apoptosis. In addition to at least one BIR domain, some IAP members also have a RING-type finger motif at their carboxyl-terminal. The RING finger domain of several IAPs, including cIAP2, have E3 ubiquitin ligase activity and target the degradation of Smac/DIABLO through ubiquitination. Smac/DIABLO is a death inducer and functions by inhibiting IAP-caspase interactions, thereby promoting apoptosis. Degradation of cell death inducers like Smac/DIABLO is thought to be a conserved mechanism by which IAPs enhance their anti-apoptotic activity, thereby promoting cell survival. The IAPs, including cIAP2, have widespread tissue protein expression, with expression levels and subcellular localization patterns differing depending on the cell lineage (see Vischioni et al. 2005 for a comprehensive study). IMG-5719 recognizes cIAP2, human cIAP2 is a 604 amino acid protein.

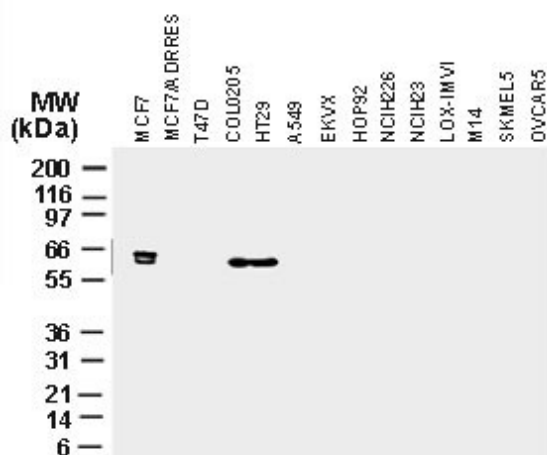
Antigen

A synthetic peptide corresponding to amino acids 532-549 (KYIPTEDVSDLPVEEQLR) of human cIAP2 was used as immunogen, GenBank no. [2205253B](https://www.ncbi.nlm.nih.gov/nuccore/2205253B).

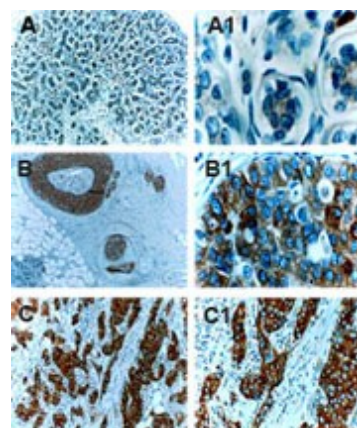
The sequence used for immunogen is 88% conserved in cow, and 83% conserved in pig, chicken, rat, and mouse.

Genebank Info (Protein)

NP_892007



Western blot analysis of cIAP2 in various cancer cell lines using IMG-5718 at 1:2000.



Immunohistochemical analysis of cIAP2 in paraffin-embedded formalin-fixed human mammary gland (female breast) using IMG-5718 at 1:2000. A, normal breast tissue. B, ductal carcinoma in situ (DCIS). C, invasive neoplasia. cIAP2 expressed increased successively with tumor progression. Hematoxylin-eosin counterstain.

Polyclonal Antibody to cIAP2

Reference

1. Wright CW and CS Duckett. 2005. Reawakening the cellular death program in neoplasia through the therapeutic blockade of IAP function. *J Clin Investigation*. 115:2673-2678.
2. Liston P, WG Fong and RG Korneluk. 2003. The inhibitors of apoptosis: there is more to life than Bcl2. *Oncogene*. 22:8568-8580.
3. Vischioni B, P van der Valk, SWS Ing, FAE Kruyt, JA Rodriguez, and G Giaccone. 2006. Expression and localization of inhibitor of apoptosis proteins in normal human tissues. *Human Pathology*. 37:78-86.

Copyright © IMGEX Corporation. All Rights Reserved

Toll free: 1-888-723-4363

Fax: 1-858-642-0937

www.imgenex.com

info@imgenex.com

Research purposes only. Not for diagnostic or in vivo use.