9853 Pacific Heights Blvd.
Suite D. San Diego,
CA 92121, USA
Tel: 858-263-4982
Email: info@abeomics.com

20-1114: Polyclonal antibody to cIAP-1/HIAP-2

Clonality :	Polyclonal
Application :	WB,IHC,IP
Reactivity :	Dog,Gerbil,Human,Mouse,Rat
Gene :	BIRC2
Gene ID :	329
Uniprot ID :	Q13490
Format :	Sera
Alternative Name :	BIRC2,API1,IAP2,MIHB,RNF48
Isotype :	Rabbit IgG
Immunogen Information :	Full-length recombinant protein of human cAIP1 was used as immunogen for this antibody

Description

cIAP1 (HIAP2, MIHB) 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 though 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 ubqiuitination. 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 cIAP1, 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). This antibody recognizes cIAP1, human cIAP1 is a 618 amino acid protein.

Product Info

Amount :	50 µl
Content :	50 µl sera
Storage condition :	Store the antibody at 4°C, stable for 6 months. For long-term storage, store at -20°C. Avoid repeated freeze and thaw cycles.

Application Note

WB: 1:1000-1:2000, IHC (paraffin): 1:1000-1:5000, IHC (frozen): Users should optimize, IP: 1:50-1:200

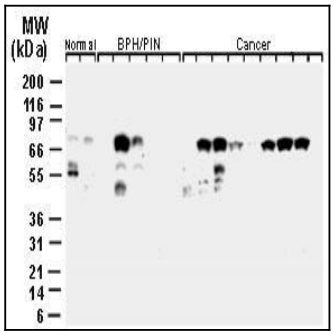

Fig:1 Western blot analysis of cIAP1 in human prostate using 20-1114 at 1:1000. PBH (benign prostate hyperplasia), PIN (prostate intraepithelial neoplasia). Elevated levels of cIAP1 were seen in certain cases of BPH/PIN and prostate cancer compared to normal prostate.

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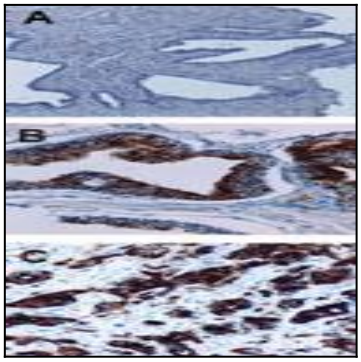

Fig:2 Immunohistochemical analysis of cIAP1 in formalin-fixed, paraffin-embedded human prostate using 20-1114 at 1:2000. A, normal prostate. B, prostate intraepithelial neoplasia (PIN). PIN is a premalignant proliferation arising within the prostate. C, prostate cancer. Hematoxylin-eosin counterstain. Increased cIAP1 expression is PIN and in prostate cancer compared to normal prostate.