

20-1056: Polyclonal antibody to cIAP-2/HiAP-1

Clonality :	Polyclonal
Application :	IP,IHC,WB
Reactivity :	Human
Gene :	BIRC2
Gene ID :	329
Uniprot ID :	Q13490
Format :	Sera
Alternative Name :	BIRC2,API1,IAP2,MIHB,RNF48
Isotype :	Rabbit IgG
Immunogen Information :	A synthetic peptide human cIAP-2 protein (amino acids 532-549 KYIPTEDVSDLPVEEQLR) was used as the immunogen for this antibody

Description

This antibody recognizes cIAP2; which is a 604 amino acid protein belongs to the family of inhibitor of apoptosis proteins (IAP). Resistance towards apoptosis is a hallmark of cancer cells, and overexpression of IAPs can contribute to the development of cancer through inhibiting apoptosis. IAPs suppress mitochondria-dependent and -independent apoptosis by binding to and inhibiting caspases through their BIR domains. In addition to BIR domain, some IAP members also have a RING-type finger motif at their carboxyl-terminal. 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.

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

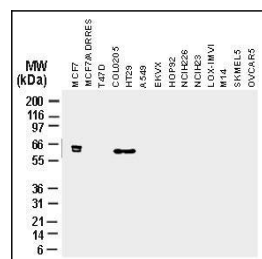


Fig:1 Western blot analysis of cIAP2 in various cancer cell lines using 20-1056 at 1:2000.

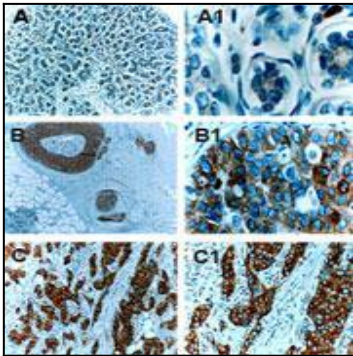


Fig:2 Immunohistochemical analysis of cIAP2 in paraffin-embedded formalin-fixed human mammary gland (female breast) using 20-1056 at 1:2000. A, normal breast tissue. B, ductal carcinoma in situ (DCIS). C. invasive neoplasia. cIAP2 expressed increased sucessively with tumor progression. Hematoxylin-eosin counterstain.