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20-1055: Polyclonal antibody to cIAP-1/HIAP-2

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 cIAP-1/HIAP-2 protein (amino acids 2-18 HKTASQRLFPGPSYQNI) was used as the immunogen for this antibody

Description

cIAP1 (HIAP2, MIHB)is a member of 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 though inhibiting apoptosis.The IAPs, including cIAP1, have widespread tissue protein expression, with expression levels and subcellular localization patterns differing depending on the cell lineage. This antibody recognizes human cIAP1 is a 618 amino acid protein. 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.

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

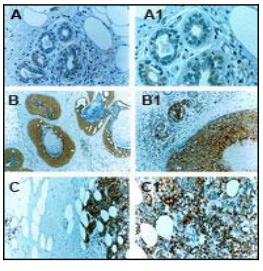

Fig:1 Immuhistochemical analysis of formalin-fixed, paraffin-embedded human breast tissue using 20-1055 at 1:2000. A, normal breast tissue. B, ductal carcinoma in situ (DCIS). C, invasive breast carcinoma. A1, B1, and C1 are higher magnifications of A, B and C, respectively. Hematoxylin-eosin counterstain. Increased cIAP1 expression is seen in the cancerous compared to normal breast tissue. Hematoxylin-eosin counterstain

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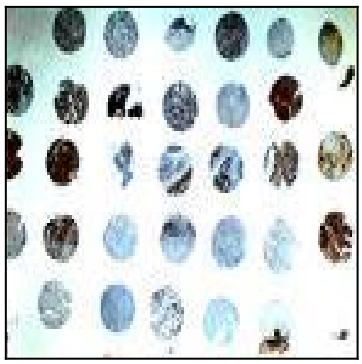

Fig:2 Immuhistochemical analysis of a formalin-fixed, paraffin-embedded human ovarian cancer tissue microarray using 20-1055 at 1:2000. Differential expression of cIAP1 is seen between patient samples. Hematoxylin-eosin counterstain.