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20-1054: 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 158-175 PNPLNSRAVEDISSSRTN) was used as the 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. 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 cIAP1, 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. 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).

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

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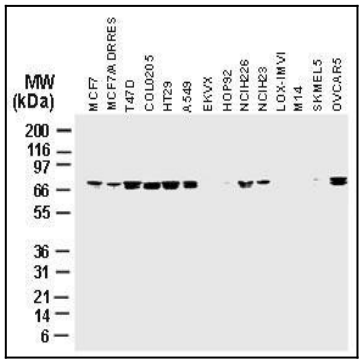


Fig:1 Western blot analysis of cIAP1 in various cancer cell lines using 20-1054 at 1:2000.

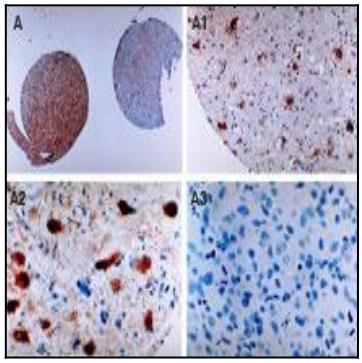


Fig:2 Immunhistochemical analysis of cIAP1 expression in formalin-fixed, paraffin-embedded human gliomas from a brain tissue microarray using 20-1054 at 1:2000. A. Two tissue cores showing a gemistocytoma, grade II tumor (left) and an anaplastic glioma-glioblastoma, grade IV tumor (right). A1 and A2, higher magnifications of the gemistocytoma. A3, higher magnification of the anaplastic glioma-glioblastoma. Hematoxylin-eosin counterstain. Higher cIAP1 expression is seen in the less malignant tumor (gemistocytoma) than the more malignant anaplastic (glioma-glioblastoma) tumor.

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