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20-1057: 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 of cIAP-2 protein (amino acids 152-172 QDFSALMRSSYHCAMNNENAR) was used as the immunogen for this antibody

Description

This antibody recognizes cIAP2; human cIAP2 is a 604 amino acid protein.This also recognize AP12-MALT1 fusion proteins assuming that they contain the cIAP2 peptide sequence (QDFSALMRSSYHCAMNNENAR) used for immunogen.This protein 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 RING finger domains of several IAPs, including cIAP2, have E3 ubiquitin ligase activity and target the degradation of Smac/DIABLO through ubqiuitination. 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. Several variants of the API2-MALT1 fusion proteins can occur in MALT1 lymphoma patients depending on the chromosomal breakpoints. It is thought that AP12-MALT1 can enhance the activation of NK-kB signalling, which may be relevant to the pathology of MALT lymphomas.

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

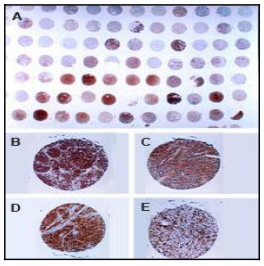

Fig:1 Immunohistochemical analysis of cIAP2 in paraffin-embedded formalin-fixed tissue using 20-1057 at 1:2000. A. Human brain tumor microarray showing differential expression of cIAP2. B-E, Higher magnification of selected high grade brain tumor tissue cores from A. Tumor types: PNET (B), ependymoblastoma (C), anaplastic oliogdendroglioma (D), glioblastoma multiforme (E). Strong staining in high grade brain tumors implies malignancy-associated deregulated cIAP2 expression. Hematoxylin-eosin counterstain.

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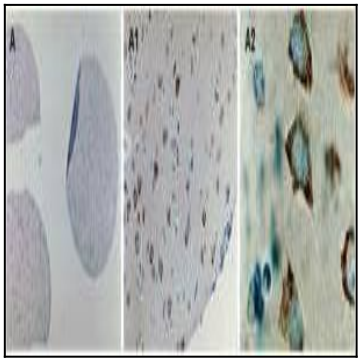

Fig:2 Immunohistochemical analysis of cIAP2 in paraffin-embedded formalin-fixed normal human brain tissue cores from a microarray using 20-1057 at 1:2000. A. Tissue cores. A1 and A2, successively higher magnificatons of a tissue core from A. Hematoxylin-eosin counterstain.