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20-1069: Polyclonal antibody to Livin (KIAP)

Clonality: Polyclonal Application: IP,IHC,WB

Reactivity: Rat, Mouse, Human

 Gene :
 BIRC7

 Gene ID :
 79444

 Uniprot ID :
 Q96CA5

 Format :
 Sera

Alternative Name: BIRC7,KIAP,LIVIN,MLIAP,RNF50,UNQ5800/PRO19607/PRO21344

Isotype: Rabbit IgG

Immunogen Information A synthetic peptide of human Livin, isoform alpha and isoform beta (amino acids 199-217

PELPTPRREVQSESAQEPG) was used as immunogen for this antibody

Description

This antibody recognizes Livin, both isoform alpha and isoform beta. Human Livin isoform alpha is a 298 amino acid protein. Livin (BIRC7/KIAP) is a member of the family of inhibitor of apoptosis proteins (IAP) and contains a single copy of a baculovirus IAP repeat (BIR) as well as a RING-type zinc finger domain. Some IAP members, like Liven, also have a RING-type finger motif at their carboxyl-terminal which may enhance anti-apoptotic activity. Many RING finger-containing IAPs possess E3 ubiquitin ligase activity, and it has been shown that Liven acts an E3 ubiquitin ligase for targeting the degradation of Smac/DIABLO. Thus degradation of Smac/DIABLO is thought to be a mechanism to enhance Livin anti-apoptotic activity, thereby promoting cell survival. Two splicing variants of Livin, alpha and beta, have been identified. The two isoforms are thought to have different anti-apoptotic properties; however, there are conflicting reports are to whether they actually differ in their biological activities. Liven is expressed at low levels in adult tissues, and relatively higher levels in developmental tissues and in many cancer cells. Certain cancers patients develop autoantibodies against liven and in a number of cancers, Liven is detected only in the tumors but not, or to substantially lower levels, in the corresponding normal adjacent tissue.

Product Info

Amount : $50 \mu l$ Content : $50 \mu l$ 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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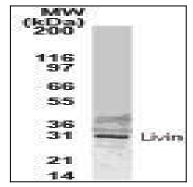


Fig:1 Western blot analysis of full-length, recombinant human Livin using 20-1069 at 1:2000.

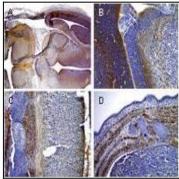


Fig:2 Immunohistochemical analysis of Livin in Bouin's-fixed, paraffin-embedded E13.5 mouse embryo (13.5 days post coitum) Bouin's using 20-1069 at 1:2000. The mother was perfused prior to embryo harvesting. A, brain overview. B, brain. C, spinal cord. D, liver and abdominal wall. Hematoxylin-eosin counterstain.



Fig:3 Immunohistochemical analysis of Livin in formalin-fixed, paraffin embedded human tonsil (secondary nodule) using 20-1069 at 1:2000. Hematoxylin-eosin counterstain.