

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 Livin, 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 Livin acts as 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 as to whether they actually differ in their biological activities. Livin is expressed at low levels in adult tissues, and relatively higher levels in developmental tissues and in many cancer cells. Certain cancer patients develop autoantibodies against Livin and in a number of cancers, Livin is detected only in the tumors but not, or to substantially lower levels, in the corresponding normal adjacent tissue.

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

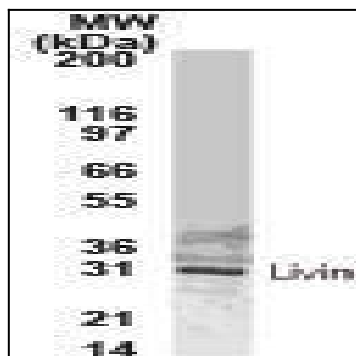


Fig:1 Western blot analysis of full-length, recombinant human Livin using 20-1069 at 1:2000.

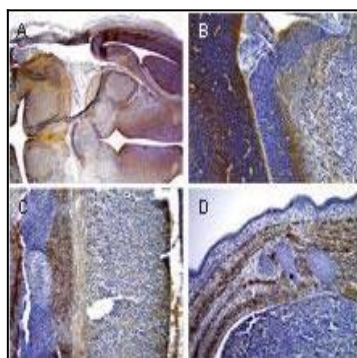


Fig:2 Immunohistochemical analysis of Livin in Bouin's-fixed, paraffin-embedded E13.5 mouse embryo (13.5 days post coitum) Bouin's using 20-1069 at 1:2000. The mother was perfused prior to embryo harvesting. A, brain overview. B, brain. C, spinal cord. D, liver and abdominal wall. Hematoxylin-eosin counterstain.



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