

Total Bad Cell-Based Colorimetric ELISA Kit

Catalog No :	KA3040C
Reactivity :	Human;Mouse;Rat
Applications :	ELISA
Gene Name :	BAD
Human Gene Id :	572
Human Swiss Prot No :	Q92934
Mouse Swiss Prot No :	Q61337
Rat Swiss Prot No :	O35147
Storage Stability :	2-8°C/6 months
Detection Method :	Colorimetric
Background :	<p>domain:Intact BH3 motif is required by BIK, BID, BAK, BAD and BAX for their pro-apoptotic activity and for their interaction with anti-apoptotic members of the Bcl-2 family.,function:Promotes cell death. Successfully competes for the binding to Bcl-X(L), Bcl-2 and Bcl-W, thereby affecting the level of heterodimerization of these proteins with BAX. Can reverse the death repressor activity of Bcl-X(L), but not that of Bcl-2 (By similarity). Appears to act as a link between growth factor receptor signaling and the apoptotic pathways.,online information:Bcl 2-associated death promoter entry,PTM:Phosphorylated on one or more of Ser-75, Ser-99, Ser-118 and Ser-134 in response to survival stimuli, which blocks its pro-apoptotic activity. Phosphorylation on Ser-99 or Ser-75 promotes heterodimerization with 14-3-3 proteins. This interaction then facilitates the phosphorylation at Ser-118, a site within the BH3 motif, leading to the release of Bcl-X(L) and the promotion of cell survival. Ser-99 is the major site of AKT/PKB phosphorylation, Ser-118 the major site of protein kinase A (CAPK) phosphorylation.,similarity:Belongs to the Bcl-2 family.,subcellular location:Upon phosphorylation, locates to the cytoplasm.,subunit:Forms heterodimers with the anti-apoptotic proteins, Bcl-X(L), Bcl-2 and Bcl-W. Also binds protein S100A10 (By similarity). The Ser-75/Ser-99 phosphorylated form binds 14-3-3 proteins.,tissue specificity:Expressed in a wide variety of tissues.,</p>

Function :	positive regulation of immune system process, regulation of leukocyte activation, positive regulation of leukocyte activation, monosaccharide metabolic process, glucose metabolic process, glucose catabolic process, apoptosis, induction of apoptosis, cell death, cell proliferation, induction of apoptosis by extracellular signals, activation of pro-apoptotic gene products, regulation of cell death, positive regulation of cell death, programmed cell death, induction of programmed cell death, carbohydrate catabolic process, death, cytokine-mediated signaling pathway, hexose metabolic process, hexose catabolic process, carbohydrate homeostasis, homeostatic process, glucose homeostasis, regulation of apoptosis, positive regulation of apoptosis, regulation of programmed cell death, positive regulation of programmed cell death, regulation of caspase activity, cellular carbohydrate catabolic proces
Subcellular Location :	Mitochondrion outer membrane. Cytoplasm . Colocalizes with HIF3A in the cytoplasm (By similarity). Upon phosphorylation, locates to the cytoplasm. .
Expression :	Expressed in a wide variety of tissues.
Sort :	17414
No4 :	1
Modifications :	Unmodified

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