Datasheet for ABIN3201009

anti-MDM4-binding Protein antibody (pSer367)

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Overview

Quantity:	100 µg
Target:	MDM4-binding Protein (MDM4)
Binding Specificity:	pSer367
Reactivity:	Human, Mouse
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This MDM4-binding Protein antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunoprecipitation (IP)

Product Details

Immunogen:	A synthetic peptide corresponding to a sequence of human Mdmx protein surrounding pSer367
Clone:	#15
Isotype:	IgG2b kappa
Characteristics:	Product: Mouse monoclonal antibody (clone #15) specific to the MdmX protein phosphorylated at Ser367, Human and mouse MdmX proteins phosphorylated at Ser367
Purification:	Purified

Target Details

Target:	MDM4-binding Protein (MDM4)
Alternative Name:	Mdmx/Hdmx (MDM4 Products)

Target Details

Background:	MdmX (synonyms: Mdm4, HdmX) inhibits p53-and p73-dependent cell cycle arrest and apoptosis by binding to the transcription activation domains of these proteins. MdmX consists of 490 amino acids with the molecular weight of 54,864 and contains a RIING-finger domain and a nuclear transport signal. It is known that the protein migrates aberrantly in SDS-PAGE at the position of an 80- kDa protein. MdmX is phosphorylated at Ser367 by Chk2 kinase downstream of ATM in response to DNA damage, and as a result, it binds to14-3-3 and is transported into nucleus where it is degraded by Mdm2. This process activates the p53 functions.
UniProt:	O15151
Pathways:	Cell Division Cycle

Application Details

Application Notes:	1. Western blotting: ~1 g/mL 2. Immunoprecipitation 3. ELISA 4. Indirect immuno-staining
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	PBS with 50 % Glycerol
Preservative:	Azide free
Storage:	-20 °C/-80 °C
Storage Comment:	-20 C (For long term storage: -70 C)

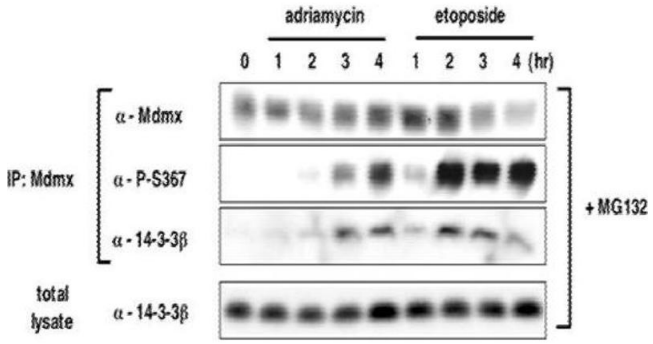
Publications

Product cited in:	Chen, Gilkes, Pan, Lane, Chen: "ATM and Chk2-dependent phosphorylation of MDMX contribute to p53 activation after DNA damage." in: **The EMBO journal**, Vol. 24, Issue 19, pp. 3411-22, (2005) (PubMed). Okamoto, Kashima, Pereg, Ishida, Yamazaki, Nota, Teunisse, Migliorini, Kitabayashi, Marine,

Publications

Prives, Shiloh, Jochemsen, Taya: "DNA damage-induced phosphorylation of MdmX at serine 367 activates p53 by targeting MdmX for Mdm2-dependent degradation." in: **Molecular and cellular biology**, Vol. 25, Issue 21, pp. 9608-20, (2005) (PubMed).

Images



Western Blotting

Image 1.