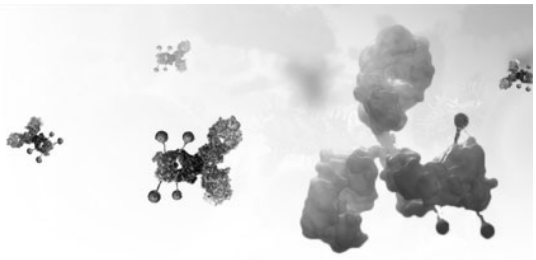

Mouse CDKN2A blocking peptide (DAG-P0310)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	The gene for CDK2NA generates several transcripts/proteins which differ from each other in their first exons. Three of these transcripts are generated by alternative splicing (isoform 1 a.k.a p16INK4A, isoform 2 and isoform 3 a.k.a p12), two of which are known to function as inhibitors of CDK4 kinase. One other transcript that is generated from this gene contains an alternate reading frame (ARF), with the first exon located 20kb upstream of the remainder of the gene(isoform 4 a.k.a. p14ARF, p19ARF, ARF). In spite of the structural and some functional differences, all the proteins encoded by the CDKN2A gene are involved in cell cycle G1 control.
Nature	Synthetic
Expression System	N/A
Conjugate	Unconjugated
Applications	BL
Cellular Localization	Nuclear
Procedure	None
Format	Liquid
Preservative	None
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request.

ANTIGEN GENE INFORMATION

Gene Name	Cdkn2a cyclin-dependent kinase inhibitor 2A [Mus musculus (house mouse)]

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Official Symbol	CDKN2A
Synonyms	CDKN2A; cyclin-dependent kinase inhibitor 2A; Arf; p16; MTS1; Pctr1; p19ARF; p16INK4a; p19 ; ARF-INK4a; INK4a-ARF; Ink4a/Arf; p16(INK4a); cyclin-dependent kinase inhibitor 2A, isoform 3; CDK4I; p16-INK4; p16-INK4a; mitochondrial smARF; cyclin-dependent kinase 4 inhibitor A; cyclin-dependent kinase inhibitor protein; cyclin-dependent kinase inhibitor 2A, isoforms 1/2; cyclin-dependent kinase inhibitor 2A (p16, inhibits CDK4);
Entrez Gene ID	12578
mRNA Refseq	NM_001040654.1
Protein Refseq	NP_001035744.1
UniProt ID	P51480
Chromosome Location	4 C3-C6; 4 42.15 cM
Pathway	Apoptosis, organism-specific biosystem; Bladder cancer, organism-specific biosystem; Bladder cancer, conserved biosystem; Cell Cycle, organism-specific biosystem; Cell Cycle, Mitotic, organism-specific biosystem; Cell cycle, organism-specific biosystem; Cell cycle, organism-specific biosystem; Cell cycle, conserved biosystem; Cell cycle signaling pathway, organism-specific biosystem; Cellular Senescence, organism-specific biosystem; Cellular responses to stress, organism-specific biosystem; Chro
Function	DNA binding; MDM2/MDM4 family protein binding; NF-kappaB binding; cyclin-dependent protein serine/threonine kinase inhibitor activity; cyclin-dependent protein serine/threonine kinase inhibitor activity; p53 binding; poly(A) RNA binding; protein binding;

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