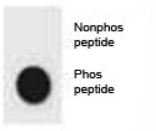
Phospho-CDKN2A Antibody (pS8) (F48749)

Catalog No.	Formulation	Size
F48749-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F48749-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity
UniProt	P42771
Applications	Dot Blot : 1:500
Limitations	This phospho-CDKN2A antibody is available for research use only.



Dot blot analysis of phospho-CDKN2A antibody. 50ng of phos-peptide or nonphos-peptide per dot were spotted.

Description

This gene generates several transcript variants which differ in their first exons. At least three alternatively spliced variants encoding distinct proteins have been reported, two of which encode structurally related isoforms known to function as inhibitors of CDK4 kinase. The remaining transcript includes an alternate first exon located 20 Kb upstream of the remainder of the gene; this transcript contains an alternate open reading frame (ARF) that specifies a protein which is structurally unrelated to the products of the other variants. This ARF product functions as a stabilizer of the tumor suppressor protein p53 as it can interact with, and sequester, MDM1, a protein responsible for the degradation of p53. In spite of the structural and functional differences, the CDK inhibitor isoforms and the ARF product encoded by this gene,

through the regulatory roles of CDK4 and p53 in cell cycle G1 progression, share a common functionality in cell cycle G1 control. This gene is frequently mutated or deleted in a wide variety of tumors, and is known to be an important tumor suppressor gene.

Application Notes

Titration of the phospho-CDKN2A antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

This phospho-CDKN2A antibody was produced from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding pS8 of human CDKN2A.

Storage

Aliquot the phospho-CDKN2A antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.