

#2407 Store at -20C

p14 ARF (4C6/4) Mouse mAb**Cell Signaling**
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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB, IHC-P	H	Endogenous	14	Mouse IgG2a	#Q8N726	1029

Product Usage Information**Application**

Western Blotting

Immunohistochemistry (Paraffin)

Dilution

1:1000

1:50

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

Specificity / Sensitivity

p14 ARF (4C6/4) Mouse mAb detects endogenous levels of total p14 ARF protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a recombinant His-tagged p14 ARF protein.

Background

Human p14 ARF (p19 ARF in mouse) is a pro-apoptotic cell cycle regulator frequently inactive in human tumors (1). Basal expression of p14 ARF is low in most cell types, but accumulation of this protein occurs in response to oncogene expression (2,3). Increased p14 ARF levels facilitate MDM2 degradation, leading to increased p53 protein levels and subsequent cell cycle arrest and/or apoptosis (4). While most p14 ARF signaling has traditionally thought to be p53-dependent, more recent reports have described p53-independent p14 ARF signaling leading to cell cycle arrest and apoptosis (5,6).

Background References

1. Eischen, C.M. et al. (1999) *Genes Dev* 13, 2658-69.
2. de Stanchina, E. et al. (1998) *Genes Dev* 12, 2434-42.
3. Zindy, F. et al. (1998) *Genes Dev* 12, 2424-33.
4. Pomerantz, J. et al. (1998) *Cell* 92, 713-23.
5. Weber, J.D. et al. (2000) *Genes Dev* 14, 2358-65.
6. Hemmati, P.G. et al. (2002) *Oncogene* 21, 3149-61.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key**WB:** Western Blotting **IHC-P:** Immunohistochemistry (Paraffin)**Cross-Reactivity Key**

H: human **M:** mouse **R:** rat **Hm:** hamster **Mk:** monkey **Vir:** virus **Mi:** mink **C:** chicken **Dm:** D. melanogaster
X: Xenopus **Z:** zebrafish **B:** bovine **Dg:** dog **Pg:** pig **Sc:** S. cerevisiae **Ce:** C. elegans **Hr:** horse
GP: Guinea Pig **Rab:** rabbit **All:** all species expected

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