

Mouse anti-WAF1 Protein, clone 4D10 (monoclonal)

Clone no. 4D10

MONXtra

Product name	Mouse anti-WAF1 Protein, clone 4D10 (monoclonal)
Host	Mouse
Applications	IHC-P (1:20-1:40)
Species reactivity	human
Conjugate	-
Immunogen	Prokaryotic recombinant fusion protein corresponding to the full length WAF1 molecule.
Isotype	IgG1
Clonality	Monoclonal
Clone number	4D10
Size	1 ml
Concentration	n/a
Format	-
Storage buffer	Tissue culture supernatant with 15 mM sodium azide
Storage until expiry date	2-8°C

FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES

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Additional info

The gene encoding WAF1, also termed p21, is transcriptionally regulated by the suppressor protein, p53. Overexpression of WAF1 is growth suppressive, possibly by inhibiting the activity of cyclin/CDK complexes. One consequence of WAF1 binding to cyclin/CDK is the inhibition of Rb protein phosphorylation. Induction of WAF1 expression requires wild type p53 activity in cells undergoing p53 dependent G1 arrest or apoptosis. Mutation of the p53 gene is a common event in human cancer and results in the failure to produce WAF1. The effect of this may lead to uncontrolled cell proliferation.

References

1. Göhring UJ et al. Journal of Clinical Pathology. 54: 866–870 (2001)
2. Schwerer MJ et al. Journal of Clinical Pathology. 54: 871–876 (2001)
3. Tweddle DA et al. American Journal of Pathology. 158 (6): 2067–2077 (2001)
4. Garcia JF et al. Histopathology. 30: 120–125 (1997)
5. Xiong Y et al. Nature. 366: 701–704 (1993)

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