

Product datasheet MON10204

MONOSAN[®]

Mouse anti-P16, clone MX007 (Monoclonal)

Clone no. MX007

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Product name	Mouse anti-P16, clone MX007 (Monoclonal)
Host	Mouse
Applications	IHC-P (1:100-1:400)
Species reactivity	Human
Conjugate	-
Immunogen	Unknown or proprietary to MONOSAN and/or its suppliers
Isotype	IgGk
Clonality	Monoclonal
Clone number	MX007
Size	1 ml
Concentration	n/a
Format	Concentrate
Storage buffer	Tissue culture supernatant containing 15mM 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

As one of the cyclin-dependent kinase inhibitors that inhibit cyclin-dependent kinases 4 and 6, p16INK4A is encoded by tumor suppressor gene CDKN2A. The tumor suppressor p16INK4A plays an important role in cell cycle regulation. Increased expression of the p16 gene, which is seen as organisms age, reduces the proliferation of stem cells. This reduction in the division and production of stem cells protects against cancer while increasing the risks associated with cellular senescence. Mutations in the p16 gene associated with loss or over expression of the protein are associated with increased risk of a wide range of cancers and cancer precursor lesions. The Immunohistochemical identification of p16 is particularly relevant in uterine cervical lesions: Development of dysplasia is closely related to human papilloma virus (HPV) infection.

Pretreatment: Heat induced epitope retrieval in 10 mM citrate buffer, pH6.0, for 20 minutes is required for IHC staining on formalin-fixed, paraffin embedded tissue sections. Note: Dilution of the antibody in 10% normal goat serum followed by a goat anti-mouse secondary antibody-based detection is recommended. Control tissue Human cervical cancer, tonsil. Staining cytoplasmic and nuclear.

References

1. Sano T, et al, AM J Pathol 1998; 153: 1741-8.
2. Mulvany NJ, et al, Pathology 2008; 40:335-44.
3. Carozzi F, et al, Lancet Oncol 2013; 14: 168-76.
4. Nishio S, et al, J Gynecol Oncol 2013; 24:215-21.
5. -

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