

Datasheet



Mouse mAb to **Interferon α 2**
Clone **N27**
Isotype **IgG1- κ**

Source

A BALB/c mouse was immunized with E.coli derived recombinant human IFN α 2c.
Fusion partner: NS-1.

Specifications

The alpha interferons are involved in virus resistance in target cells for these viruses. They are known to block cell proliferation and to regulate MHC class I antigen expression. The IFN α family has over 20 genes and pseudogenes in two families (I and II), one with a mature length of 166aa and one of 172aa. Cells producing IFN α are lymphocytes, monocytes, macrophages and cell lines such as Namalwa and KGI. Bioassays for IFN α include cytopathic effect blocking, by viruses such as VSV, SFV and BMCV, on their target cells. A number of receptors for IFN α are now known and seem to be expressed on most cell types. N27 is specific for human IFN α 2 and does not cross react with human IFN α 1. N27 reacts with linear peptide 43aa-53aa, placing the epitope outside the immunodominant regions I and II.

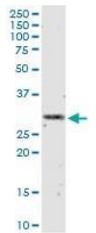


Figure 1:
Western blot of Jurkat cells stained for INF alpha 2

Species reactivity

Positive: human.

Applications

N27 can be used for the detection of human IFN α 2 in ELISA and Western blot. It can be paired with IFN α 2 mAb N39, to form an EIA to measure IFN α 2.

ELISA	Frozen sections	Pair	Western blot
+	+	N39	+

Format

Produced in tissue culture, contains no host Ig. Antibodies are affinity purified and presented in PBS with 0,02 % sodium azide.

Stored at 4°C- 8°C, shelf life is at least 24 months after purchase.

Dilution advice

- ELISA (solid phase: 0,1-100 μ g/ml; tracer: 0,001-100 μ g/ml for 30 min at RT).
- Immunoblotting (1-2 μ g/ml).
- Immunohistology (1-2 μ g/ml for 30 min at RT; an appropriate antigen retrieval method for staining of formalin-fixed tissues has not been established to date).

Positive control

Human IFN α 2, Namalwa and KGI cells.

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References

- Kontsek, P. et al., *Mol Immunol.* **29**: 863-870 (1992).
- Kontsek, P. et al., *Immunol. Lett.* **35**: 281-284 (1993).