

Product datasheet

anti-DNA mouse monoclonal, AC-30-10, lyophilized, purified

Short overview

Cat. No. 61014 **Quantity** 100 µg

Concentration 100 µg/ml after reconstitution with 1 ml dist. water

Product description

Host Mouse
Antibody Type Monoclonal
Isotype IgM

Clone AC-30-10

Immunogen Double- and single-stranded DNA

Formulation Lyophilized; reconstitute in 1 ml dist. water (final solution contains 0.09% sodium azide, 0.5% BSA

in PBS buffer, pH 7.4)

Conjugate Unconjugated

PurificationSize exclusion chromatographyStorage before2-8°C until indicated expiry date

reconstitution

Storage after 2-8°C

reconstitution

Intended useResearch use onlyApplicationDot blot, ICC/IF, IHC

Reactivity All species

Applications

Dot Blot Assay dependent (on nitrocellulose membrane, after baking at 70°C)

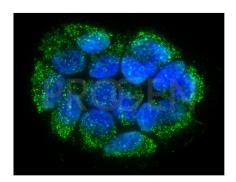
 $\begin{array}{ll} \mbox{Immunocytochemistry (ICC)} & 1:200 \; (0.5 \; \mu \mbox{g/ml}) \\ \mbox{Immunohistochemistry (IHC) - frozen} & 1:10 \; (10 \; \mu \mbox{g/ml}) \\ \end{array}$

Immunohistochemistry (IHC) - paraffin 1:10 (10 μg/ml, microwave treatment recommended)

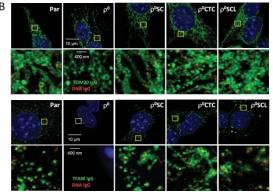
Background

AC-30-10 stains DNA present in the nuclei and the mitochondria of cells and tissues. It is also a reliable positive control in assays for detection of DNA antibodies, especially for the detection of autoantibodies in autoimmune diseases. Due to the high sensitivity it can also be used for the detection of mycoplasma contamination in cell cultures. Binding characteristics: reacts with all forms of native and denatured DNA; reactive also with lambda DNA and synthetic DNA. Tested cultured cell lines: XLKE-A6 (Xenopus), RVF-SMC, PTK-2, HeLa.

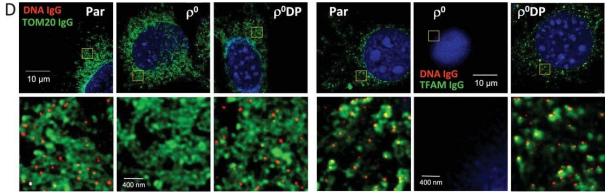
Product images



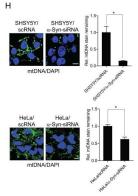
Immunofluorescence analysis of HeLa cells with anti-DNA antibody. Fixation was performed using 3% paraformaldehyde for 10 min at RT. Cells were blocked with 5% BSA in PBST (PBS + 0.1% Tween 20) for 1 h at RT and permeabilized with 0.3% Triton-X 100 in PBS for 10 min at RT. The primary antibody anti-DNA mouse monoclonal, AC-30-10 (Cat. No. 690014) was diluted in blocking buffer (antibody concentration 0.5 μ g/ml) and incubated over-night at 4°C. The secondary antibody goat anti-mouse IgM Alexa488 was also diluted in blocking buffer (antibody concentration 2.5 μ g/ml) and incubated for 30 min at 37°C and 30 min at RT. Nuclear DNA was stained with DAPI in blue.



Dong, L. F., Kovarova, J., et al. Horizontal transfer of whole mitochondria restores tumorigenic potential in mitochondrial DNA-deficient cancer cells. Elife. 2017-02-15. Species/Reactant: Mus musculus (House mouse)Applications: Immunocytochemistry-immunofluorescenceImage collected and cropped by CiteAb from the following publication, provided under a CC-BY licence.



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Vo, M. T., Choi, S. H., et al. Tristetraprolin inhibits mitochondrial function through suppression of α-Synuclein expression in cancer cells.

Oncotarget. 2017-06-27. Species/Reactant: Homo sapiens (Human)Applications: Immunocytochemistry-immunofluorescenceImage collected and PROGEN Biotechnik GmbH | Maaßstraße 30 | D-69123 Heidelberg

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PROGEN Biotechnik GmbH Maaßstraße 30 D-69123 Heidelberg			

References

Publication	Species	Application
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Tanaka, K. et al. Mammalian BCAS3 and C16orf70 associate	human	ICC-IF
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and non-selective autophagy., Autophagy 17, 2011-2036,		
<u>(2021)</u>		
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