

Title (en)

MONOCLONAL ANTIBODY CAPABLE OF BINDING TO PNA/NUCLEIC ACID COMPLEXES

Title (de)

MONOKLONALER ANTIKÖRPER DER FÄHIG IST, AN PNA/NUKLEINSÄUREKOMPLEXEN ZU BINDEN

Title (fr)

ANTICORPS MONOCLONAL POUVANT SE FIXER A DES COMPLEXES DE PNA/ACIDES NUCLEIQUES

Publication

EP 0840751 A1 19980513 (EN)

Application

EP 95942055 A 19951201

Priority

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Abstract (en)

[origin: WO9614341A1] Monoclonal antibodies capable of binding to complexes formed between PNA (<u>P</u>eptide <u>N</u>ucleic <u>A</u>cid) and nucleic acids, particularly to PNA/DNA or PNA/RNA complexes, are described. The preferred monoclonal antibodies are capable of binding to PNA/DNA or PNA/RNA complexes, but not to single-stranded PNAs, double-stranded nucleic acids or single-stranded nucleic acids. PNAs are newly developed, not naturally occurring compounds of which some have a polyamide backbone bearing a plurality of ligands such as naturally occurring nucleobases attached to the backbone through a suitable linker. Some PNAs have been shown to possess a surprisingly high affinity for complementary nucleic acid forming very stable and specific complexes. Such PNAs are thus suitable as hybridization probes for detection of nucleic acids. The antibodies now provided render these PNAs very usable as hybridization probes. The antibodies provided are useful in the capture, recognition, detection, identification or quantitation of nucleic acids in biological samples, via their ability to react with PNA-nucleic acid complexes.

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IPC 8 full level

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