Rabbit Anti-Fluorescein Isothiocyanate (FITC)

**Code No. V 0403**

**Lot 058**

**Immunogen**
Bovine serum albumin (BSA) conjugated with fluorescein isothiocyanate, isomer 1.

**Presentation**
DAKO Rabbit Anti-Fluorescein Isothiocyanate (FITC) is the purified immunoglobulin fraction of rabbit antiserum in 0.1 mol/L NaCl, 15 mmol/L NaN₃.

Protein concentration: 2.3 g/L.

**Specificity**
The antibody reacts with high affinity, with free fluorescein and with fluoresceinyl groups on proteins or DNA, whether introduced by FITC-conjugation or otherwise.

The antibody does not react with 2,4-dinitrophenyl (DNP) groups or trinitrophenyl (TNP) groups, and thus, it may be used for double staining purposes together with DAKO Rabbit Anti-Dinitrophenyl (DNP), code No. V 0401.

The reactivity to BSA has been removed by solid-phase absorption. The antibody shows no reaction with BSA (or bovine or human serum) when tested in crossed immunoelectrophoresis and ELISA.

**Application**
Fluorescein has been used as hapten in several contexts (1,2,3,4). The high affinity of the present antibody makes the fluorescein-anti-fluorescein system an attractive alternative to avidin-biotin detection systems. Fluorescein, in contrast to biotin, has the advantage of not being present in tissues and biological fluids.

DAKO Rabbit Anti-Fluorescein Isothiocyanate can be used together with fluorescein-labelled reagents (e.g. antibodies, lectins and DNA-probes) in a variety of techniques, for example immunohistochemistry, immunoblotting, and hybridization. For **in situ** hybridization in tissue sections the affinity-isolated F(ab') fragmented products P 5100 and D 5101 are recommended due to their smaller size. They function as visualization reagents for targets (antigens, DNA, RNA) that are marked with FITC-conjugated compounds, e.g. antibodies and nucleic acid probes, including peptide nucleic acid (PNA) probes. An interesting application has been described in the literature (5) where solid-phase anti-FITC is used to bind cells previously incubated with FITC-conjugated antibodies (a sort of "poor man's FACS").

**GUIDELINE FOR DILUTION:** 1:200 - 1:2 000

**Storage**
2 - 8 °C.

**References**