

P06004

Mouse anti LexA antibody (monoclonal)

Product	Mouse monoclonal antibody (IgG ₁), directed against the <i>E. coli</i> LexA protein.
Contents	40 µl, 200 µg/ml IgG ₁ . Sufficient for 20 Western blots.
Storage	Store at 4°C, do not freeze

Background Yeast-based, genetic screening systems for the identification of novel protein-protein interactions have become increasingly important in the past years. In the yeast two-hybrid system, a protein under investigation is expressed as a fusion to a DNA binding domain, for example derived from the *E. coli* LexA repressor protein. Potential interactors are expressed from a cDNA library as fusions to an activation domain and interacting proteins are isolated by growth and/or color selection.

Fusion proteins are commonly detected using an antibody directed against either the DNA binding domain (e.g. LexA) or against the activation domain (e.g. GAL4). Detecting whether your fusion protein is expressed in the yeast two-hybrid system or similar screening systems is crucial since it ensures that the actual screen will yield interactors and not false positives.

Application This antibody has been specifically tested for Western blotting applications involving the detection of LexA fusion proteins from total yeast extracts. It is suitable for detecting both yeast two-hybrid and DUALmembrane fusion proteins.

Recommended dilution for Western blotting is 1:5'000. Dilute antibody in 1x PBS pH 7.4, 0.1% Tween-20, 1% non-fat milk powder, or similar incubation buffer. We recommend incubation volumes of 10 ml and incubation times of 10-15 hours at 4°C.

Specificity Recognizes the DNA binding domain of the *E. coli* SOS repressor protein LexA

Support Please see www.dualsystems.com for support and protocols. Please direct support inquiries to support@dualsystems.com or call +41 44 738 50 00.

Research use This product is intended for research use only, not for diagnostic or therapeutic uses.

MSDS Non-hazardous. No MSDS required. Observe good laboratory practice guidelines and wear gloves, laboratory coat and glasses when handling the product.