

Sleeping Beauty Transposase Antibody



Orders: 877-616-CELL (2355)
orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com
cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:
W	All	Transfected Only	40	Rabbit

Product Usage Information

Application

Western Blotting

Dilution

1:1000

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

Sleeping Beauty Transposase Antibody recognizes transfected levels of total Sleeping Beauty transposase protein.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Leu258 of Sleeping Beauty transposase protein. Antibodies are purified by protein A and peptide affinity chromatography.

Background

Sleeping Beauty Transposase is part of a transposon system designed to allow viral free genetic insertion into vertebrate DNA. The system is composed of two components: a transposable element (transposon) that can carry DNA of interest, and a transposase that cuts and pastes the transposon into the genome. The transposase was identified from a consensus sequence of inactive Tc1/mariner-like transposase DNA sequences from salmonid fish. It was constructed by fusing and modifying two sequences from Atlantic salmon (*Salmo salar*) and one sequence from rainbow trout (*Oncorhynchus mykiss*). The transposon, T, was identified from a consensus sequence of extinct Tc-1 like transposons in salmonid fish (*Tanichthys albonubes*) (1). Further modifications of the system have been made since its initial construction: sequence changes to the transposase to fit better to an improved consensus sequence has increased its efficiency by 100 fold (2).

Background References

1. Ivics, Z. et al. (1997) *Cell* 91, 501-10.
2. Mátés, L. et al. (2009) *Nat Genet* 41, 753-61.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting

Cross-Reactivity Key

All: All Species Expected

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