



REST (Repressor Element RE-1 Silencing Transcription Factor, RE1-silencing Transcription Factor, REST Protein, Neural Restrictive Silencer Factor, Neuron Restrictive Silencer Factor, NRSF, Repressor Binding to the X2 Box, XBR)

Catalog number

R1623-01B

Supplier

United States Biological

REST, which is short for RE1-silencing transcription factor, locks down neuronal genes in other cells by grabbing onto the DNA and cementing in other molecules, an arrangement that stays intact as non-neuronal cells differentiate into liver, muscle, and other tissues. REST uses a different temporary off mechanism to direct neuronal development.

REST is a tumor suppressor gene in epithelial cells and has been found to be mutated in 33 percent of colorectal tumors and cell lines studied. Rest could eventually serve as a marker for diagnosing colorectal and other types of cancer.

Applications

Suitable for use in Western Blot, Immunohistochemistry, Immunofluorescence/Immunocytochemistry and Immunoprecipitation. Other applications not tested.

Recommended Dilution

Immunofluorescence (IC): 1:250-1:1000

Immunohistochemistry (paraffin): 1:500-1:2000. Epitope retrieval with citrate buffer pH 6.0 is recommended.

Immunoprecipitation: 2-5ug/mg lysate

Western Blot: 1:2500-1:10,000

Optimal dilutions to be determined by the researcher.

Storage and Stability

May be stored at 4°C. For long-term storage, aliquot and store at 4°C. Do not freeze. Aliquots are stable for 12 months after receipt. For maximum recovery of product, centrifuge the original vial prior to removing the cap. Further dilutions can be made in assay buffer.

Immunogen

Synthetic peptide corresponding to a region between residue 1050-1097 of human RE1-silencing transcription factor.

Formulation

Supplied as a liquid in Tris-citrate/phosphate buffer, pH 7.5, 0.09% sodium azide.

Purity

Purified by immunoaffinity chromatography.

**Specificity**

Recognizes human REST. Species sequence homology: Orangutan, Rhesus Monkey, Gorilla, Chimpanzee, White-tufted-ear marmoset, Crab-eating macaque and Northern white-cheeked gibbon

Product Type

Pab

Source

human

Isotype

IgG

Grade

Affinity Purified

Applications

IC IF IHC IP WB

Crossreactivity

Hu Mo

Storage

4°C Do not freeze