

DESCRIPTION

Specificity	Detects TcBuster-M Transposase in Western blots.
Source	Monoclonal Mouse IgG _{2B} Clone # 1077035
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Synthetic Peptide
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

Stability & Storage Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

TcBuster is a non-viral gene delivery system that enables stable gene transfer in most cell types. The TcBuster system belongs to the hAT-family of DNA transposons and is derived from the red flour beetle *Tribolium castaneum* (1). It consists of the TcBuster transposase mRNA and DNA transposon encoding multicistronic cargos for delivery. This antibody binds to the TcBuster-M transposase enzyme, a hyperactive version of TcBuster and carries out the cut-and-paste reactions for efficient delivery of DNA cargos (2). TcBuster is used in a wide variety of genome engineering applications for both research and commercial purposes. These include, but are not limited to, immune cell therapies (T, NK cells), stem cell therapies for regenerative medicine (iPSCs), and bioproduction of biologics, such as monoclonal antibodies. The TcBuster system is available for purchase from Bio-Techne. For more information, please visit <https://www.bio-techne.com/services/gene-engineering-services-tcbuster>.

PRODUCT SPECIFIC NOTICES

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