Anti-7AT tag antibody (BJA-002)
(mouse monoclonal IgG, 1mg/1ml)

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BACKGROUND

7AT epitope sequence **(HPGEIEE)** is a modified epitope tag from a original of 3H7(PGEIEE) and is the part of *Deinococcus radiodurans* Bacteriophytochromes (DrBphP). This monoclonal anti-7AT antibody is highly specific to any protein containing minimal original epitope sequence (HPGEIEE). This antibody react better to a Alanine extended (HPGEIEEA) when tagged in the C-terminal end of the target protein than original tag (HPGEIEE)

PRODUCT

Each vial contains 100 µg IgG (monoclonal) in 100 µl of PBS with <0.1% sodium azide, 30% glycerol

Specific to the peptide of HPGEIEE and HPGEIEEA in case of C-terminal tagging.

*** Control protein:**
purified 7AT tagged GFP protein (~28 kDa),
use 5~10 µl for western blot.

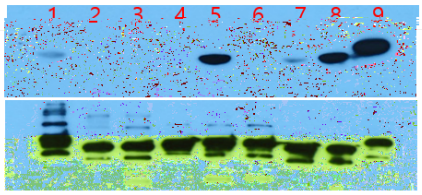
APPLICATIONS

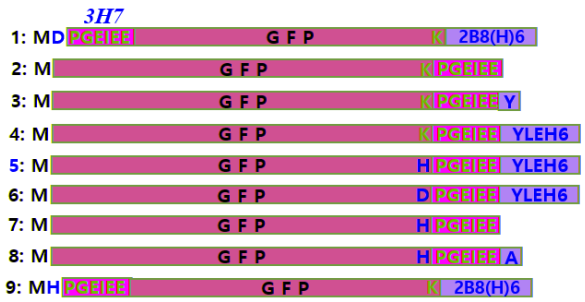
Anti-7AT antibody is recommended for detection of HPGEIEE or HPGEIEEA peptide tagged fusion proteins by Western Blot, starting dilution with 1:5,000 (dilution range is 1:5,000~1:20,000), Immunoprecipition [~5 µg per 100-500 µg of total protein (1 ml of cell lysate)] and solid phase ELISA (starting dilution 1:1,000~1:10,000). Chromatine immunoprecipitation(ChIP)

STORAGE

Store at -20℃. Stable up to two year from the date of shipment. Non-hazardous. No MSDS required.

Product research DATA





Specificity test of anti-7AT antibody to various constructs.

Western blotting(upper) analysis against GFP construct with various 7AT tags.. 7AT(HPGEIEE) tag is working in the N-terminus without extra amino acid, but extra Alanine is required when tagging in the C-terminus.

SELECT PRODUCT CITAIONS

2. Kim TL, Cho MH, Sangsawang K, **Bhoo SH** (2016) Fine Mutational Analysis of 2B8 and 3H7 Tag Epitopes with Corresponding Specific Monoclonal Antibodies. **Mol Cells.** 39(6): 460-467.

3. Kim TL, Yoo J, Sangsawang K, Cho MH, Yang SH, Suh JW, Hahn TR, **Bhoo SH** (2014) Epitope mapping of monoclonal antibodies for the Deinococcus radiodurans bacteriophytochome. **Protein Sci.** 23(6): 812-818.