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Datasheet for 009-001-R45S

BAD protein-GST fusion

Overview

Description:	BAD recombinant protein-GST fusion protein - 009-001-R45S
Item No.:	009-001-R45S
Size:	20 µg
Applications:	SDS-PAGE, WB
Origin:	Human
Expressed in:	Sf9 cells

Product Details

Background:	BAD is a member of the BCL-2 family of proteins that are known to be regulators of programmed cell death. BAD is a pro-apoptotic protein that forms a heterodimer complex with BCL-xL and BCL-2 which reverses the prosurvival activity of these proteins (1). The proapoptotic activity of BAD is regulated through its phosphorylation and this inhibits the pro-apoptosis function of BAD. Protein kinases such as AKT, RAF and RSK1 can phosphorylate BAD and RSK1-induced phosphorylation of BAD at ser112 suppresses BAD-mediated apoptosis in neurons. BAD inhibits G(1) to S phase transition in MCF7 breast cancer cells and overexpression of BAD inhibits cell growth as well as cyclin D1 expression (2). BAD Protein is ideal for investigators involved in Signaling Proteins, Apoptosis Proteins, Apoptosis/Autophagy, Cancer, Cellular Stress, and Neurobiology research.
Synonyms:	BBC2, BCL2L8, Bcl2-associated agonist of cell death, Bcl2 antagonist of cell death, Bcl-2-binding component 6, Bcl-2-like protein 8
Species of Origin:	Human
Expressed in:	Sf9 cells
Type:	Recombinant Protein

Target Details

Gene Name:	BAD
Purity/Specificity:	Recombinant full-length human BAD was expressed by baculovirus in Sf9 insect cells using an N-Terminal Glutathione-S-Transferase fusion protein. The purity was determined to be >85% by densitometry.

Relevant Links:	• NCBI - NM_032989

Application Details

Tested Applications:	SDS-PAGE, WB
Application Note:	BAD Protein is stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF. Human BAD Protein has been tested by SDS-Page and is suitable for use in Western Blot. Expect a band approximately ~ 47kDa on specific lysates or tissues. Specific conditions for reactivity should be optimized by the end user.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
WB:	User Optimized

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	0.2 µg/µL
Buffer:	See application note.

Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store product at –70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Expiration:	Expiration date is one (1) year from date of receipt.

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