



Human Heat Shock Protein 8 (DAG387)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description Heatshock proteins (HSP) are a class of functionally related proteins involved in the folding and unfolding of other proteins. Their expression is increased when cells are exposed to elevated temperatures or other stress. This increase in expression is transcriptionally regulated. The dramatic upregulation of the heat shock proteins is a key part of the heat shock response and is induced primarily by heat shock factor (HSF). HSPs are found in virtually all living organisms, from bacteria to humans.

Species	Human
Conjugate	Unconjugated
Applications	Suitable for use in ELISA and Western blot. Each laboratory should determine an optimum working titer for use in its particular application. Other applications have not been tested but use in such assays should not necessarily be excluded.
Format	Purified, Liquid
Concentration	Lot specific (BCA method)
Buffer	20mM Tris/acetate, pH 7.6 containing 10mM NaCl, 0.1mM EDTA, 0.1mM PMSF and 15mM beta-mercaptoethanol
Preservative	None
Storage	2-8°C short term, -20°C long term

BACKGROUND

Introduction The protein encoded by this gene belongs to the superfamily of small heat-shock proteins containing a conservative alpha-crystallin domain at the C-terminal part of the molecule. The expression of this gene is induced by estrogen in estrogen receptor-positive breast cancer

cells, and this protein also functions as a chaperone in association with Bag3, a stimulator of macroautophagy. Thus, this gene appears to be involved in regulation of cell proliferation, apoptosis, and carcinogenesis, and mutations in this gene have been associated with different neuromuscular diseases, including Charcot-Marie-Tooth disease. [provided by RefSeq, Jul 2008]

Keywords

HSPB8; heat shock 22kDa protein 8; H11; HMN2; CMT2L; DHMN2; E2IG1; HMN2A; HSP22; heat shock protein beta-8; protein kinase H11; alpha-crystallin C chain; E2-induced gene 1 protein; heat shock 27kDa protein 8; small stress protein-like protein HSP22;
