Datasheet for ABIN7317509

AIM2 Protein (GST tag)

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Overview

Quantity:	50 µg
Target:	AIM2
Origin:	Human
Source:	Baculovirus infected Insect Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This AIM2 protein is labelled with GST tag.

Product Details

Purpose:	Recombinant Human AIM2 Protein (GST Tag)(Active)
Sequence:	Met 1-Thr 343
Characteristics:	A DNA sequence encoding the human AIM2 (NP_004824.1) (Met 1-Thr 343) was fused with the GST tag at the N-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.
Biological Activity Comment:	Measured by its ability to inhibit the proliferation of MCF7 human breast adenocarcinoma cells. The ED50 for this effect is typically 10-40ug/ml.

Target Details

Target:	AIM2

Target Details

Alternative Name:	AIM2 (AIM2 Products)
Background:	Background: AIM2, Absent In Melanoma 2 is a member of the interferon-inducible HIN-200 protein family that contains an amino-terminal pyrin domain and a carboxy-terminal oligonucleotide/oligosaccharide-binding domain, senses cytoplasmic DNA by means of its oligonucleotide/oligosaccharide-binding domain and interacts with ASC (apoptosis-associated speck-like protein containing a CARD) through its pyrin domain to activate caspase-1. In response to foreign cytoplasmic DNA, AIM2 forms an inflammasome, resulting in caspase activation in inflammatory cells. It had been pointed to a role of AIM2 function in both inflammation and cancer. AIM-2 antigen is expressed in a wide variety of tumor types, including neuroectodermal tumors, as well as breast, ovarian and colon carcinomas. AIM-2 could be used as a tumor antigen target for monitoring vaccine trials or to develop antigen specific active immunotherapy for glioma patients. Synonym: PYHIN4
Molecular Weight:	65.2 kDa
NCBI Accession:	NP_004824
Pathways:	Activation of Innate immune Response, Positive Regulation of Endopeptidase Activity, Inflammasome

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile 50 mM Tris, 1M NaCl, 0.5 mM PMSF, 5 mM GSH, pH 8.0
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.