

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human AIM2 in direct ELISAs.
Source	Monoclonal Rabbit IgG Clone # 2307A
Purification	Protein A or G purified from cell culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human AIM2 Lys79-Thr180 Accession # O14862
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

Human Interferon-inducible protein AIM2 (also known as absent in melanoma 2 or simply AIM2), encoded by the AIM2 gene, is a 343 amino acids (aa), 39 KDa protein with a N-terminal DAPIN (or pyrin) domain (amino acids 1-87) and a C-terminal HIN-200 domain (amino acids 138-337), which is known to have two oligonucleotide-binding folds. Recent research has shown that AIM2 is part of the inflammasome and is involved in innate immune response by recognizing cytosolic double-stranded DNA and inducing caspase-1-activating the inflammasome in macrophages. Upon binding to DNA, Aim-2 undergoes oligomerization and associates with PYCARD initiating the recruitment of caspase-1 precursors and processing of IL-1b and IL-18. Over aa 71-180, human Aim2 shares 90% aa sequence identity with macaque Aim2.

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