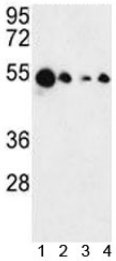
AIM2 Antibody (F51969)

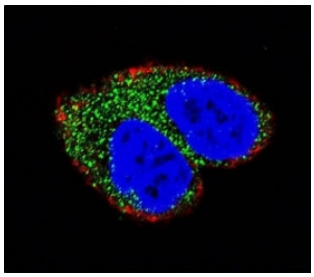
Catalog No.	Formulation	Size
F51969-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F51969-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

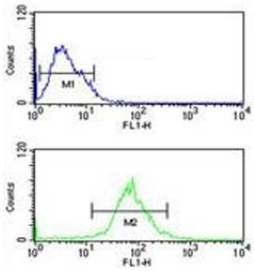
Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity
UniProt	O14862
Localization	Cytoplasmic, membrane, nuclear
Applications	Western Blot : 1:1000 Flow Cytometry : 1:10-1:50 Immunofluorescence : 1:10-1:50
Limitations	This AIM2 antibody is available for research use only.



Western blot analysis of AIM2 antibody and 1) MCF-7, 2) HL-60, 3) K562 and 4) HeLa lysate. Predicted molecular weight 40-45 kDa.



Confocal immunofluorescent analysis of AIM2 antibody with MCF-7 cells followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green). Actin filaments have been labeled with Alexa Fluor 555 Phalloidin (red). DAPI was used as a nuclear counterstain (blue).



AIM2 antibody flow cytometric analysis of MCF-7 cells (green) compared to a negative control (blue). FITC-conjugated goat-anti-rabbit secondary Ab was used for the analysis.

Description

Involved in innate immune response by recognizing cytosolic double-stranded DNA and inducing caspase-1-activating inflammasome formation in macrophages. Upon binding to DNA is thought to undergo oligomerization and to associate with PYCARD initiating the recruitment of caspase-1 precusrsor and processing of interleukin-1 beta and interleukin-18. Detects cytosolic dsDNA of viral and bacterial origin in a non-sequence-specific manner. Can also trigger PYCARD-dependent, caspase-1-independent cell death that involves caspase-8 (By similarity). Tumor suppressor which may act by repressing NF-kappa-B transcriptional activity. [UniProt]

Application Notes

Titration of the AIM2 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 1-50 from the human protein was used as the immunogen for this AIM2 antibody.

Storage

Aliquot the AIM2 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.