

Pyrin / MEFV / MEF Antibody (aa268-284)
Rabbit Polyclonal Antibody
Catalog # ALS11586**Specification****Pyrin / MEFV / MEF Antibody (aa268-284) - Product Information**

Application	IHC
Primary Accession	O15553
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	86kDa KDa

Pyrin / MEFV / MEF Antibody (aa268-284) - Additional Information**Gene ID** 4210**Other Names**

Pyrin, Marenosttrin, MEFV, MEF

Target/Specificity

Amino acids 268 to 284 of human MEFV

Reconstitution & Storage

+4°C or -20°C, Avoid repeated freezing and thawing.

Precautions

Pyrin / MEFV / MEF Antibody (aa268-284) is for research use only and not for use in diagnostic or therapeutic procedures.

Pyrin / MEFV / MEF Antibody (aa268-284) - Protein Information**Name** MEFV {ECO:0000303|PubMed:11115844, ECO:0000312|HGNC:HGNC:6998}**Function**

Involved in the regulation of innate immunity and the inflammatory response in response to IFNG/IFN-gamma (PubMed:10807793, PubMed:11468188, PubMed:16037825, PubMed:16785446, PubMed:17431422, PubMed:17964261, PubMed:18577712, PubMed:19109554, PubMed:19584923, PubMed:26347139, PubMed:27030597, PubMed:28835462)

target="_blank">28835462). Organizes autophagic machinery by serving as a platform for the assembly of ULK1, Beclin 1/BECN1, ATG16L1, and ATG8 family members and recognizes specific autophagy targets, thus coordinating target recognition with assembly of the autophagic apparatus and initiation of autophagy (PubMed:16785446, PubMed:17431422, PubMed:26347139). Acts as an autophagy receptor for the degradation of several inflammasome components, including CASP1, NLRP1 and NLRP3, hence preventing excessive IL1B- and IL18-mediated inflammation (PubMed:16785446, PubMed:17431422, PubMed:26347139). However, it can also have a positive effect in the inflammatory pathway, acting as an innate immune sensor that triggers PYCARD/ASC specks formation, caspase-1 activation, and IL1B and IL18 production (PubMed:16037825, PubMed:27030597, PubMed:28835462). Together with AIM2, also acts as a mediator of pyroptosis, necroptosis and apoptosis (PANoptosis), an integral part of host defense against pathogens, in response to bacterial infection (By similarity). It is required for PSTPIP1-induced PYCARD/ASC oligomerization and inflammasome formation (PubMed:10807793, PubMed:11468188, PubMed:17964261, PubMed:18577712, PubMed:19109554, PubMed:19584923). Recruits PSTPIP1 to inflammasomes, and is required for PSTPIP1 oligomerization (PubMed:10807793, PubMed:11468188, PubMed:17964261, PubMed:18577712, PubMed:19109554, PubMed:19584923).

Cellular Location

[Isoform 1]: Cytoplasm, cytoskeleton. Cell projection, ruffle. Cell projection, lamellipodium. Nucleus. Cytoplasm. Cytoplasmic vesicle, autophagosome. Note=Associated with microtubules and with the filamentous actin of perinuclear filaments and peripheral lamellar ruffles (PubMed:11468188). In pre- apoptotic cells, colocalizes with PYCARD/ASC in large specks (inflammasomes) (PubMed:11468188). In migrating monocytes, strongly polarized at the leading edge of the cell where it colocalizes with polymerizing actin and PYCARD/ASC (PubMed:11468188)

Tissue Location

Expressed in peripheral blood leukocytes, particularly in mature granulocytes and to a lesser extent in monocytes but not in lymphocytes. Detected in spleen, lung and muscle, probably as a result of leukocyte infiltration in these tissues. Not expressed in thymus, prostate, testis, ovary, small intestine, colon, heart, brain, placenta, liver, kidney, pancreas. Expression detected in several myeloid leukemic, colon cancer, and prostate cancer cell lines

Volume

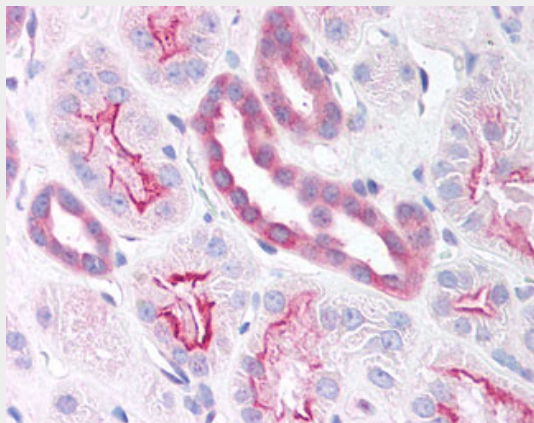
Array

Pyrrin / MEFV / MEF Antibody (aa268-284) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Pyrin / MEFV / MEF Antibody (aa268-284) - Images



Anti-MEFV antibody IHC of human kidney.

Pyrin / MEFV / MEF Antibody (aa268-284) - Background

Involved in innate immunity and the inflammatory response. Interacts with several components of the inflammasome complex, a large oligomeric structure which recruits and activates CASP1 and ultimately induces maturation of cytokines such as IL1B. However, the exact role of MEFV in the inflammatory pathway is uncertain as contradictory effects on IL1B processing have been reported in different experimental systems. Has been shown to activate IL1B production (PubMed:16037825). Has also been shown to inhibit IL1B production (PubMed:16785446, PubMed:17431422). Also required for PSTPIP1-induced PYCARD oligomerization and for formation of pyroptosomes, large supramolecular structures composed of oligomerized PYCARD dimers which form prior to inflammatory apoptosis. Can reduce PYCARD-induced apoptosis. Recruits PSTPIP1 to pyroptosomes, and required for PSTPIP1 oligomerization.

Pyrin / MEFV / MEF Antibody (aa268-284) - References

Aksentijevich I., et al. Cell 90:797-807(1997).
Papin S., et al. Hum. Mol. Genet. 9:3001-3009(2000).
Mural R.J., et al. Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.
Bernot A., et al. Nat. Genet. 17:25-31(1997).
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