Product Specification Sheet

Allograft inflammatory factor 1 antibody

Cat #AIF1H-A | Rabbit Anti-phospho (Serine 38) Human Allograft inflammatory factor 1 antibody | **SIZE**: 100 µg

Actin-binding protein that enhances membrane ruffling and RAC activation. Enhances the actin-bundling activity of LCP1. Binds calcium. Plays a role in RAC signaling and in phagocytosis. May play a role in macrophage activation and function. Promotes the proliferation of vascular smooth muscle cells and of T-lymphocytes. Enhances lymphocyte migration. Plays a role in vascular inflammation.

Source of antigen and antibody

Uniprot: P55008

Host: Rabbit

Clonality: Polyclonal

Purification: Ammonium sulfate followed by peptide affinity purification

Immunogen: Phosphorylated synthetic peptide surrounding Serine 38 derived from Human AIF1

Reactivity: Human

Cross-reactivity: The peptide region used as an immunogen exhibits the following % homology with the species as follows; 100% Non-human Primates, 95% Sheep, Horse, Dog, Bovine, Mouse. 90% Rat, Cat. Reactivity has only been confirmed in-house with Human samples.

Subcellular Location: Plasma membrane, Cytoskeleton, and phagocytic cup

Isoforms: This antibody will not bind to Isoform 2 or 3.

Recommended Secondary Antibody: Goat anti-Rabbit IgG-HRP (**ADI cat#20320-200)**

Negative Control: Non-immune Rabbit IgG (**ADI cat# 20009-1**).

Form & Storage of Antibodies

Affinity purified IgG
200 µl Solution; Concentration: 0.5 mg/ml
Supplied in PBS pH 7.4 + 0.1% BSA

Lyophilized powder
Reconstitute powder in 200 µl distilled water to 0.5 mg/ml

Storage:

Short-term: 4^{o}C for 1 month

Long-term: at –20^{0}C or below in suitable aliquots after reconstitution for 1 year. Do not expose to multiple free/thaw cycles or store working, diluted solutions.

Recommended Usage

ELISA: Assay dependent concentration. Typically between 0.1-2.0 µg/ml for capture/detection antibodies

IHC: 1-10 µg/ml. QC tested using 10 mM sodium citrate pH 6 antigen retrieval. The antibody may work better with other retrieval solutions or no retrieval.

Western Blotting: 0.5-1.0 µg/ml
Predicted band size: 16.7 kDa
Observed band size: ~16.7 kDa.

Above concentrations are a *suggestion*, user's must optimize the assay based on their own conditions. The antibody may work in other applications such as Flow Cytometry, Immunocytochemistry, or IP. These methods have not been tested by ADI.

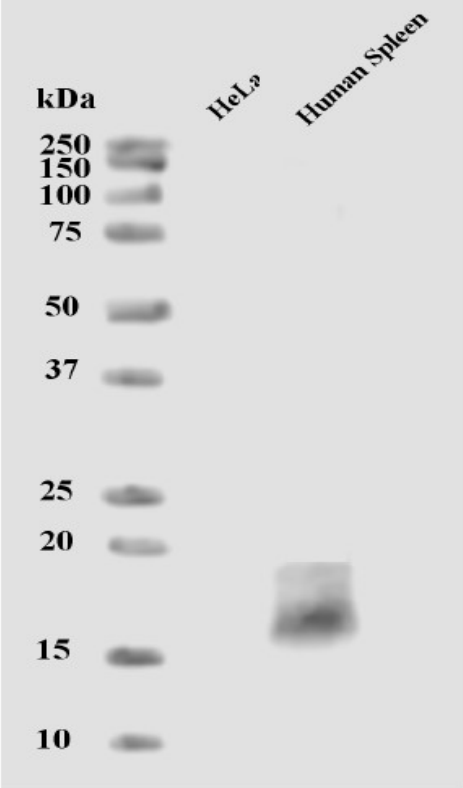
**This product is for In vitro research use only.*

Related materials available from ADI

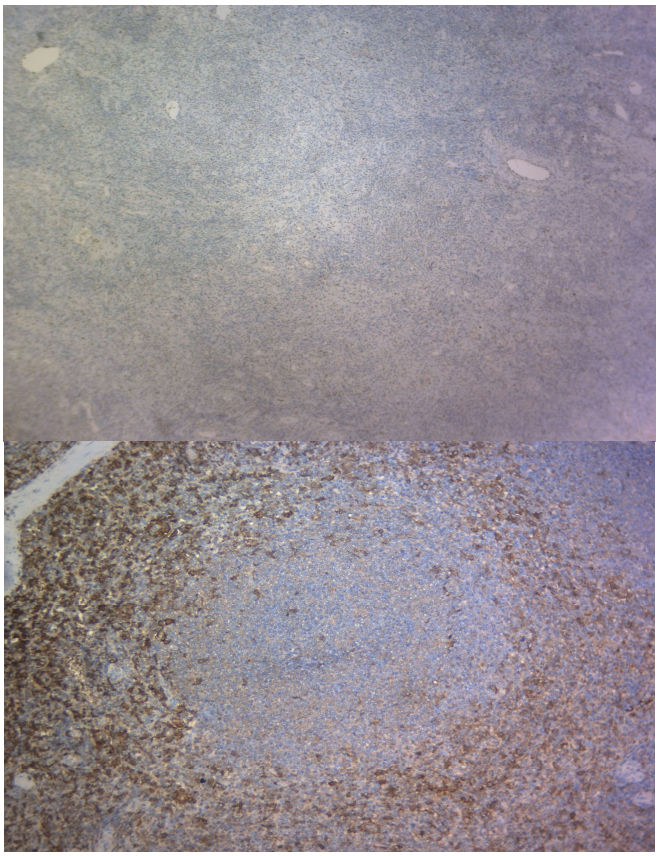
Catalog#	Description
SPP1H-A	Rabbit anti-Human SPP-1 (Osteopontin) antibody
SPP1M-A	Rabbit anti-Mouse SPP-1 (Osteopontin) antibody
GFAP11-A	Rabbit anti-Mouse phospho Glial fibrillary acidic protein (GFAP, S266) antibody
GFAP21-A	Rabbit anti-Mouse Glial fibrillary acidic protein (GFAP) antibody

AIF1H-A 281218IA

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Western blot: 20 µg of whole cell/tissue lysates of HeLa (negative control) and Human spleen were heated for 5 minutes at 95ºC then electrophoretically separated on an 'Any KD' SDS-PAGE gel (Biorad). The gel was run for at 150V for ~1 hour and transferred to a 0.2 µm nitrocellulose membrane using the 'Low MW' settings on a Transblot Turbo (Biorad). The blot was blocked for 1 hour at room temperature with Fish plasma (Aquablock, EastCoastBio). **AIF1H-A** was diluted with PBST+0.1% Casein to 1 ug/ml and incubated overnight at 4ºC. The blot was washed with TBS-T 3 times for 5 minutes each. Goat anti-rabbit IgG HRP (**ADI cat#20320**) was diluted in TBST+0.1% BSA at a 1:10,000 dilution (50 ng/ml) then incubated for 1 hour at room temperature. The blot was washed 3 times with TBS-T for 5 minutes each. The blot was then incubated with ADI Femto ECL substrate (**ADI cat#80210**) for 5 minutes and imaged on a CCD imaging system (C-DiGit, LI-COR). Specific band is observed at ~16.7 kDa



Immunohistochemistry: FFPE Human Ovary (negative) and Spleen samples were heated at 60ºC for 15 minutes then deparrafinization was performed. Antigen retrieval was performed in a microwave for 10 minutes at 95ºC using 10 mM pH 6, sodium citrate buffer. The slides were then cooled for 20 minutes at room temperature and blocked with 2.5% normal goat serum for 30 minutes at room temperature. The slide was washed 3 times in PBST. **AIF1H-A** was diluted to 5 ug/ml in TBST+0.1% BSA and incubated overnight at 4ºC. The slide was washed in PBST then incubated with Goat anti-Rabbit IgG HRP Polymer detection reagent for 30 minutes at room temperature. The slide was washed the incubated with DAB for 3 minutes, washed with distilled water, and counterstained with Hematoxylin for 1 minute.