For Research Use Only

FHOD1 Polyclonal antibody

Catalog Number:33972-1-AP

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Basic Information

Catalog Number:
33972-1-AP

Size:
150ul , Concentration: 500 ug/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG38590

GenBank Accession Number:
NM_013241.2

GeneID (NCBI):
29109

UNIPROT ID:
Q9Y613

Full Name:
formin homology 2 domain containing 1

Calculated MW:
127kDa 1164aa

Observed MW:
125 kDa

Purification Method:
Antigen affinity Purification

Recommended Dilutions:
WB: 1:1000-1:4000

Applications

Tested Applications:
WB, ELISA

Species Specificity:
human

Positive Controls:

WB : HeLa cells, K-562 cells

Background Information

FHOD1 (Formin homology 2 domain-containing protein 1) is a member of the Diaphanous-related formins (DRFs), a family of proteins characterized by the presence of a GTP-binding domain (GBD), formin homology (FH) 1 and FH2 domains, a coiled-coil motif, and a diaphanous autoregulatory domain (DAD). Accumulating evidence indicates that FHOD1 not only modulates intracellular signaling pathways in tumor cells but also influences multiple components of the tumor microenvironment (TME), including T cells, B cells, cancer-associated fibroblasts (CAFs), and various cytokines. Dysregulated expression and functional impairment of FHOD1 have been implicated in the development of tumor immunosuppression. Specifically, FHOD1 interferes with the function of chemokine receptors responsible for guiding immune cell trafficking to tumor sites, thereby compromising the efficient infiltration of immune cells into the TME. This deficiency limits the capacity of immune cells to target and eliminate tumor cells. Furthermore, FHOD1 aberrantly activates intracellular signaling pathways within immune cells, impairing their ability to recognize and respond to tumor cells effectively. Consequently, FHOD1 contributes to an immunosuppressive TME, creating a permissive environment for tumor progression and metastasis (PMID: 40364836).

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

***** 20ul sizes contain 0.1% BSA**

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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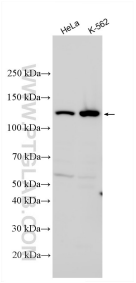
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 33972-1-AP (FHOD1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.