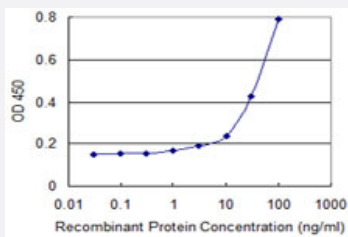


ACP5 monoclonal antibody (M01), clone 2D9

Catalog # H00000054-M01

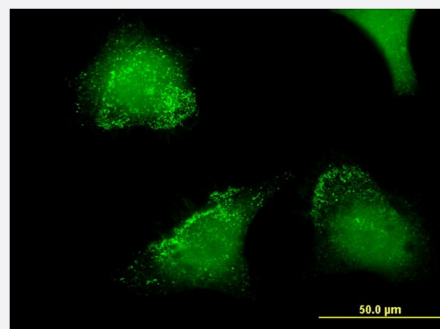
Size 100 ug

Applications



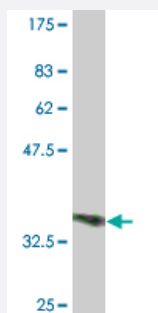
Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged ACP5 is 1 ng/ml as a capture antibody.



Immunofluorescence

Immunofluorescence of monoclonal antibody to ACP5 on HeLa cell . [antibody concentration 10 ug/ml]



Western Blot detection against Immunogen (35.31 KDa) .

Specification

Product Description

Mouse monoclonal antibody raised against a partial recombinant ACP5.

Immunogen	ACP5 (AAH25414.1, 72 a.a. ~ 158 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	NFYFTGVQDINDKRFQETFEDVFSRSLRKVPWYVLAGNHDHLGNVSAQIAYSKISKRWNFPSPFYRLHFKIPQTNVSVAIFMLDTV
Host	Mouse
Reactivity	Human
Isotype	IgG2a Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (35.31 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged ACP5 is 1 ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

- Immunofluorescence

Immunofluorescence of monoclonal antibody to ACP5 on HeLa cell . [antibody concentration 10 ug/ml]

Gene Info — ACP5

Entrez GeneID	54
GeneBank Accession#	BC025414
Protein Accession#	AAH25414.1
Gene Name	ACP5

Gene Alias	MGC117378, TRAP
Gene Description	acid phosphatase 5, tartrate resistant
Omim ID	171640
Gene Ontology	Hyperlink
Gene Summary	This gene encodes an iron containing glycoprotein which catalyzes the conversion of orthophosphoric monoester to alcohol and orthophosphate. It is the most basic of the acid phosphatases and is the only form not inhibited by L(+)-tartrate. [provided by RefSeq]
Other Designations	TrATPase tartrate resistant acid phosphatase 5 tartrate-resistant acid ATPase

Publication Reference

- [Tartrate-resistant acid phosphatase 5 promotes pulmonary fibrosis by modulating \$\beta\$ -catenin signaling.](#)

Yinan Hu, Qi Wang, Jun Yu, Qing Zhou, Yanhan Deng, Juan Liu, Lei Zhang, Yongjian Xu, Weining Xiong, Yi Wang.

Nature Communications 2022 Jan; 13(1):114.

Application: IF, Mouse, Primary mice lung fibroblasts

- [Tartrate-Resistant Acid Phosphatase 5/ACP5 Interacts with p53 to Control the Expression of SMAD3 in Lung Adenocarcinoma.](#)

Yinan Hu, Jun Yu, Qi Wang, Lei Zhang, Xueying Chen, Yong Cao, Jianping Zhao, Yongjian Xu, Dingsheng Jiang, Yi Wang, Weining Xiong.

Molecular Therapy Oncolytics 2020 Mar; 16:272.

Application: Co-IP, Human, A549

Pathway

- [gamma-Hexachlorocyclohexane degradation](#)
- [Lysosome](#)
- [Riboflavin metabolism](#)

Disease

- [Genetic Predisposition to Disease](#)
- [Kidney Failure](#)

- [Osteonecrosis](#)