

ADD1 Antibody (monoclonal) (M01)**Mouse monoclonal antibody raised against a full length recombinant ADD1.****Catalog # AT1053a****Specification**

ADD1 Antibody (monoclonal) (M01) - Product Information

Application	WB, IHC, E
Primary Accession	P35611
Other Accession	BC042998
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgG1 kappa
Calculated MW	80955

ADD1 Antibody (monoclonal) (M01) - Additional Information**Gene ID** 118**Other Names**

Alpha-adducin, Erythrocyte adducin subunit alpha, ADD1, ADDA

Target/Specificity

ADD1 (AAH42998, 1 a.a. ~ 662 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Dilution

WB~~1:500~1000

Format

Clear, colorless solution in phosphate buffered saline, pH 7.2 .

Storage

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Precautions

ADD1 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

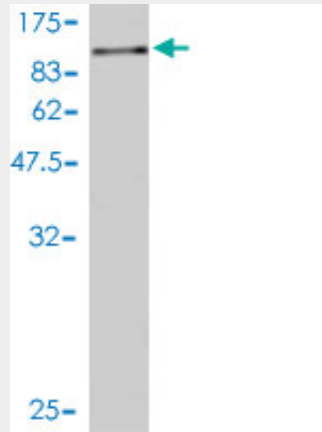
ADD1 Antibody (monoclonal) (M01) - Protocols

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

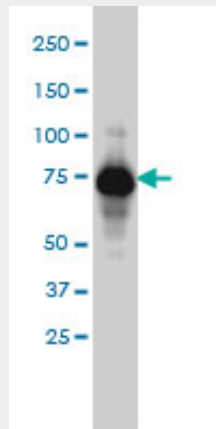
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)

- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

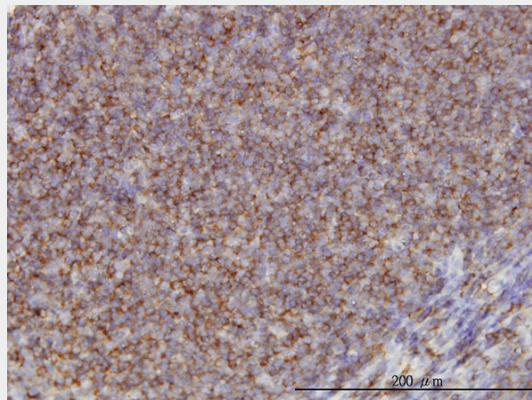
ADD1 Antibody (monoclonal) (M01) - Images



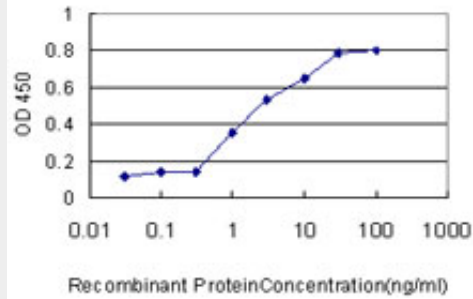
Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (98.56 KDa) .



ADD1 monoclonal antibody (M01), clone 2C9 Western Blot analysis of ADD1 expression in IMR-32 ((Cat # AT1053a)



Immunoperoxidase of monoclonal antibody to ADD1 on formalin-fixed paraffin-embedded human tonsil. [antibody concentration 3 ug/ml]



Detection limit for recombinant GST tagged ADD1 is approximately 0.3ng/ml as a capture antibody.

ADD1 Antibody (monoclonal) (M01) - Background

Adducins are a family of cytoskeleton proteins encoded by three genes (alpha, beta, gamma). Adducin is a heterodimeric protein that consists of related subunits, which are produced from distinct genes but share a similar structure. Alpha- and beta-adducin include a protease-resistant N-terminal region and a protease-sensitive, hydrophilic C-terminal region. Alpha- and gamma-adducins are ubiquitously expressed. In contrast, beta-adducin is expressed at high levels in brain and hematopoietic tissues. Adducin binds with high affinity to Ca(2+)/calmodulin and is a substrate for protein kinases A and C. Alternative splicing results in multiple variants encoding distinct isoforms; however, not all variants have been fully described.

ADD1 Antibody (monoclonal) (M01) - References

Genetic risk factors for cerebral small-vessel disease in hypertensive patients from a genetically isolated population. Schuur M, et al. *J Neurol Neurosurg Psychiatry*, 2010 Jul 28. PMID 20667857. Variation at the NFATC2 Locus Increases the Risk of Thiazolidinedione-Induced Edema in the Diabetes REduction Assessment with ramipril and rosiglitazone Medication (DREAM) Study. Bailey SD, et al. *Diabetes Care*, 2010 Jul 13. PMID 20628086. Pharmacogenetic association of hypertension candidate genes with fasting glucose in the GenHAT Study. Irvin MR, et al. *J Hypertens*, 2010 Oct. PMID 20577119. Population based allele frequencies of disease associated polymorphisms in the Personalized Medicine Research Project. Cross DS, et al. *BMC Genet*, 2010 Jun 17. PMID 20565774. Independent predictive roles of eotaxin Ala23Thr, paraoxonase 2 Ser311Cys and beta-adrenergic receptor Trp64Arg polymorphisms on cardiac disease in Type 2 Diabetes--an 8-year prospective cohort analysis of 1297 patients. Wang Y, et al. *Diabet Med*, 2010 Apr. PMID 20536507.