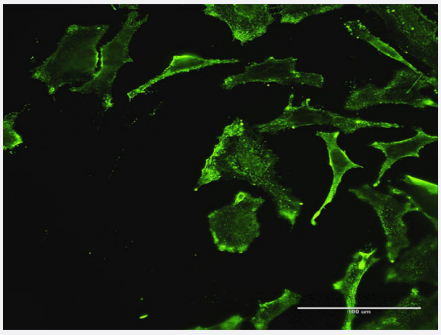
REN monoclonal antibody (M02), clone 3B5

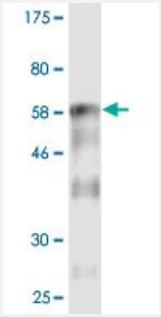
Catalog # H00005972-M02 Size 100 ug

Applications



Immunofluorescence

Immunofluorescence of monoclonal antibody to REN on HeLa cell . [antibody concentration 15 ug/ml]



Western Blot detection against Immunogen (67.87 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a full-length recombinant REN.
Immunogen	REN (AAH47752, 24 a.a. ~ 406 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	LPTDTTTFKRIFLKRMPSIRESLKERGVDMARLGPEWSQPMKRLTLGNTTSSVILTNYMDTQYYGEI GIGTPPQTFKVVFDTGSSNVWVPSSKCSRLYTACVYHKLFDASDSSSYKHNGTELTLRYSTGTVS GFLSQDIITVGGITVTQMFGEVTEMPALPFMLAEFDGVVGMGFIEQAIGRVTPIFDNIISQGVLKEDV FSFYYNRDSENSQSLGGQIVLGGSDPQHYEGNFHYINLIKTGVWQIQMKGVSVGSSTLLCEDGCLA LVDTGASYISGSTSSIEKLMEALGAKKRLFDYVVKCNEGPTLPDISFHLGGKEYTLTSADYVFQESY SSKKLCTLAIHAMDIPPPTGPTWALGATFIRKFYTEFDRRNNRIGFALAR
Host	Mouse

Reactivity	Human
Interspecies Antigen Sequence	Mouse (70); Rat (66)
Isotype	IgG1 Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (67.87 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

- ELISA

- Immunofluorescence

  Immunofluorescence of monoclonal antibody to REN on HeLa cell . [antibody concentration 15 ug/ml]

Gene Info — REN

Entrez GeneID	5972
GeneBank Accession#	BC047752
Protein Accession#	AAH47752
Gene Name	REN
Gene Alias	FLJ10761
Gene Description	renin
Omim ID	179820 267430
Gene Ontology	Hyperlink

Gene Summary	Renin catalyzes the first step in the activation pathway of angiotensinogen--a cascade that can result in aldosterone release,vasoconstriction, and increase in blood pressure. Renin, an aspartyl protease, cleaves angiotensinogen to form angiotensin I, which is converted to angiotensin II by angiotensin I converting enzyme, an important regulator of blood pressure and electrolyte balance. Transcript variants that encode different protein isoforms and that arise from alternative splicing and the use of alternative promoters have been described, but their full-length nature has not been determined. Mutations in this gene have been shown to cause familial hyperproreninemia. [provided by RefSeq
Other Designations	OTTHUMP00000034311|angiotensin-forming enzyme|angiotensinogenase|renin precursor, renal

Pathway

- Renin-angiotensin system

Disease

- Alzheimer disease
- Arrhythmias
- Brain Ischemia
- Cardiovascular Diseases
- Carotid Stenosis
- Cerebrovascular Accident
- Chorioamnionitis
- Coronary Artery Disease
- Death
- Diabetes Complications
- Diabetes Mellitus
- Diabetic Angiopathies
- Diabetic Nephropathies
- Edema
- Emergencies

- Fetal Membranes
- Genetic Predisposition to Disease
- Glaucoma
- Hyperaldosteronism
- Hyperlipidemias
- Hypertension
- Kidney Failure
- Metabolic Syndrome X
- Myocardial Infarction
- Neoplasms
- Obstetric Labor
- Osteoporosis
- Pre-Eclampsia
- Premature Birth
- Renal Insufficiency
- Tobacco Use Disorder