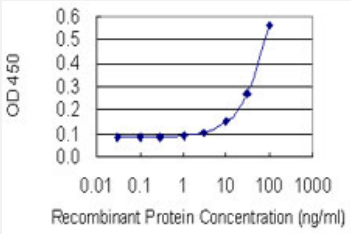
EN2 monoclonal antibody (M03), clone 1E1

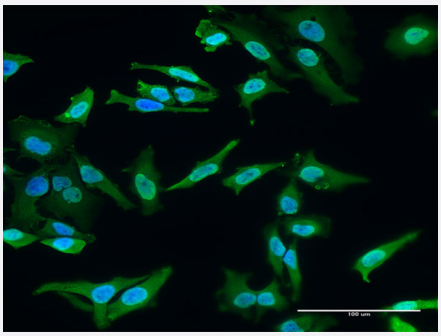
Catalog # H00002020-M03 Size 100 ug

Applications



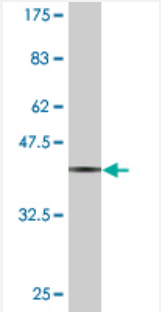
Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged EN2 is 3 ng/ml as a capture antibody.



Immunofluorescence

Immunofluorescence of monoclonal antibody to EN2 on HeLa cell . [antibody concentration 40 ug/ml]



Western Blot detection against Immunogen (39.38 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a partial recombinant EN2.

Immunogen	EN2 (NP_001418.2, 86 a.a. ~ 210 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	GTCCAGAGGGRGGGAGGEGGASGAEGGGGAGGSEQLLGSGSREPRQNPPCAPGAGGPLPAA GSDSPGDGEGGSKTLSLHGGAKKGGDPGGPLDGSLKARGLGGGDLSVSSDSDSSQAGANLGA QP
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (79); Rat (78)
Isotype	IgG2a Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (39.38 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 EN2 is 3 ng/ml as a capture antibody.

  Protocol Download

- ELISA

- Immunofluorescence

  Immunofluorescence of monoclonal antibody to EN2 on HeLa cell . [antibody concentration 40 ug/ml]

Gene Info — EN2

Entrez GeneID	2020
GeneBank Accession#	NM_001427

Protein Accession#	NP_001418.2
Gene Name	EN2
Gene Alias	AUTS1, AUTS10
Gene Description	engrailed homeobox 2
Omim ID	131310 611016
Gene Ontology	Hyperlink
Gene Summary	Homeobox-containing genes are thought to have a role in controlling development. In Drosophila, the 'engrailed' (en) gene plays an important role during development in segmentation, where it is required for the formation of posterior compartments. Different mutations in the mouse homologs, En1 and En2, produced different developmental defects that frequently are lethal. The human engrailed homologs 1 and 2 encode homeodomain-containing proteins and have been implicated in the control of pattern formation during development of the central nervous system. [provided by RefSeq
Other Designations	engrailed homolog 2|engrailed-2

Publication Reference

- Aptamer-antibody hybrid ELONA that uses hybridization chain reaction to detect a urinary biomarker EN2 for bladder and prostate cancer.

  Eunseon Kim, Minji Kang, Changill Ban.

  Scientific Reports 2022 Jul; 12(1):11523.

  Application: Aptamer-antibody hybrid (ELONA), Human, Urine

Disease

- Autistic Disorder
- Child Development Disorders
- Genetic Predisposition to Disease
- Parkinson disease