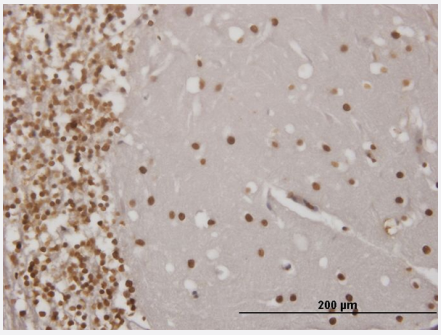
EN1 monoclonal antibody (M04), clone 3H2

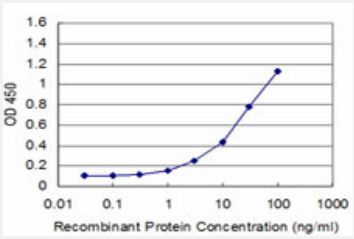
Catalog # H00002019-M04 Size 100 ug

Applications



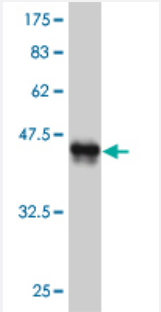
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunoperoxidase of monoclonal antibody to EN1 on formalin-fixed paraffin-embedded human cerebellum. [antibody concentration 3 ug/ml]



Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged EN1 is approximately 1ng/ml as a capture antibody.



Western Blot detection against Immunogen (40.08 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a full length recombinant EN1.

Immunogen	EN1 (NP_001417, 266 a.a. ~ 392 a.a) full length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	SQQPLVWPAWVYCTRYSDRPSSGPRTRKLKKKKNEKEDKRPRTAFTAEQLQRLKAEFQANRYITEQRRQTLAQELSLNESQIKIWFQNKRAKIKKATGIKNGLALHLMAQGLYNHSTTTVQDKDESE*
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (100)
Isotype	IgG2a Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (40.08 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

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

  Immunoperoxidase of monoclonal antibody to EN1 on formalin-fixed paraffin-embedded human cerebellum. [antibody concentration 3 ug/ml]

  Protocol Download

- Sandwich ELISA (Recombinant protein)

  Detection limit for recombinant GST tagged EN1 is approximately 1ng/ml as a capture antibody.

  Protocol Download

- ELISA

Gene Info — EN1

Entrez GeneID	2019

GeneBank Accession#	NM_001426
Protein Accession#	NP_001417
Gene Name	EN1
Gene Alias	-
Gene Description	engrailed homeobox 1
Omim ID	131290
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	OTTHUMP00000162091|engrailed homolog 1

Publication Reference

- Specification of dopaminergic subsets involves interplay of En1 and Pitx3.

  Veenvliet JV, Dos Santos MT, Kouwenhoven WM, von Oerthel L, Lim JL, van der Linden AJ, Koerkamp MJ, Holstege FC, Smidt MP.

  Development 2013 Aug; 140(16):3373.

  Application: IP, Mouse, MN9D-N13-cells

Disease

- Cardiovascular Diseases
- Diabetes Mellitus
- Edema
- Mental Disorders
- Parkinson disease
- Schizophrenia

- Sudden Infant Death