

EN2 Engrailed 2 Antibody FITC Conjugated

Catalog No: #C01298F

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Description

Product Name	EN2 Engrailed 2 Antibody FITC Conjugated
Host Species	Rabbit
Clonality	Polyclonal
Isotype	IgG
Purification	Purified by Protein A.
Applications	ICC IF
Species Reactivity	Hu Ms Rt
Immunogen Description	KLH conjugated synthetic peptide aa 300-333 333 derived from human EN2 Engrailed 2
Conjugates	FITC
Target Name	EN2 Engrailed 2
Other Names	Homeobox protein engrailed-2; Homeobox protein en-2; Hu-En-2; EN2
Accession No.	Swiss-Prot#P19622NCBI Gene ID2020
Uniprot	P19622
GeneID	2020;
Excitation Emission	494nm 518nm
Cell Localization	Nucleus
Concentration	1mg ml
Formulation	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Application Details

ICC=1:50-200 IF=1:50-200

Background

The engrailed-2 gene, EN2, a murine homolog of the Drosophila homeobox gene engrailed (EN), is required for midbrain and cerebellum development and dorsal ventral patterning of the limbs as well as apical ectodermal ridge formation. In Drosophila, the EN gene plays an important role during development in segmentation, where it is required for the formation of posterior compartments. Human EN-1 and EN-2 are homeodomain-containing proteins and have been implicated in the control of pattern formation during development of the central nervous system. Different mutations in the mouse homologs, EN-1 and EN-2, produce different developmental defects that frequently are lethal. EN-1 is highly expressed by essentially all dopaminergic neurons in the substantia nigra and ventral tegmentum. EN-1 and EN-2 regulate expression of α -synuclein, a gene that is genetically linked to Parkinson's disease. During early brain development mouse EN-2 is expressed in a broad band across most of the mid-hindbrain region. EN-2 is also expressed in mouse myoblasts and has been associated with cerebellar hypoplasia.

Note: This product is for in vitro research use only