

## Goat Anti-Engrailed-2 Antibody

Peptide-affinity purified goat antibody Catalog # AF1369a

### **Specification**

## Goat Anti-Engrailed-2 Antibody - Product Information

Application WB
Primary Accession P19622

Other Accession NP 001418, 2020

Reactivity

Predicted Human, Mouse, Dog

Host Goat
Clonality Polyclonal
Concentration 100ug/200ul

Isotype IgG
Calculated MW 34211

# Goat Anti-Engrailed-2 Antibody - Additional Information

**Gene ID 2020** 

#### **Other Names**

Homeobox protein engrailed-2, Homeobox protein en-2, Hu-En-2, EN2

#### **Format**

0.5 mg lgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

#### **Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

### **Precautions**

Goat Anti-Engrailed-2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

### **Goat Anti-Engrailed-2 Antibody - Protein Information**

Name EN2

**Cellular Location** 

Nucleus.

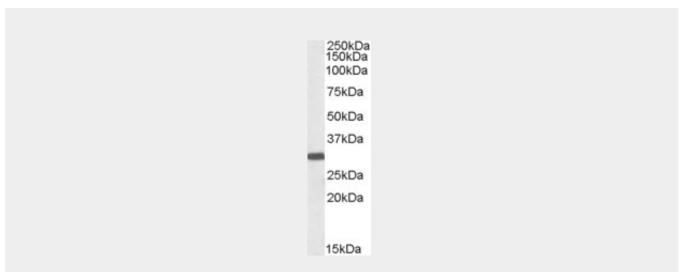
#### **Goat Anti-Engrailed-2 Antibody - Protocols**



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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

## Goat Anti-Engrailed-2 Antibody - Images



AF1369a (0.1  $\mu$ g/ml) staining of Rat Brain lysate (35  $\mu$ g protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

# Goat Anti-Engrailed-2 Antibody - Background

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.

# **Goat Anti-Engrailed-2 Antibody - References**

Intronic single nucleotide polymorphisms of engrailed homeobox 2 modulate the disease vulnerability of autism in a han chinese population. Yang P, et al. Neuropsychobiology, 2010. PMID 20523082.

Family-based studies indicate association of Engrailed 2 gene with autism in an Indian population. Sen B, et al. Genes Brain Behav, 2010 Mar 1. PMID 20050924.

Autism-associated haplotype affects the regulation of the homeobox gene, ENGRAILED 2. Benayed R, et al. Biol Psychiatry, 2009 Nov 15. PMID 19615670.

Haplotype analysis of the engrailed-2 gene in young-onset Parkinson's disease. Rissling I, et al. Neurodegener Dis, 2009. PMID 19270442.

Engrailed-2 regulates genes related to vesicle formation and transport in cerebellar Purkinje cells. Holst MI, et al. Mol Cell Neurosci, 2008 Aug. PMID 18562208.