BOSTER BIOLOGICAL TECHNOLOGY
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Anti-EN1 (Engrailed 1) Antibody (N-term)

Catalog Number: A05395

About EN1

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.

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Overview

Product Name	Anti-EN1 (Engrailed 1) Antibody (N-term)
Reactive Species	Human, Mouse
Description	Boster Bio Anti-EN1 (Engrailed 1) Antibody (N-term) (Catalog # A05395). Tested in IF, IHC-P, WB application(s). This antibody reacts with Human, Mouse.
Application	IF, IHC-P, WB
Clonality	Polyclonal
Formulation	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.
Storage Instructions	Maintain refrigerated at 2-8°C for up to 2 weeks. For long-term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.
Host	Rabbit
Uniprot ID	Q05925

Technical Details

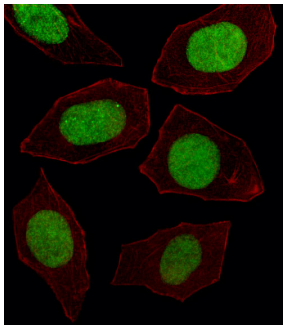
Immunogen	This EN1 (Engrailed 1) antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human EN1 (Engrailed 1).
Predicted Reactive Species	Bovine
Isotype	Rabbit IgG

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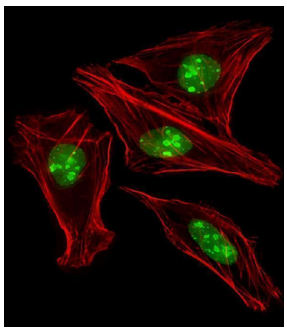
Purification	This antibody is purified through a protein A column, followed by peptide affinity purification.
Suggested Dilutions	IF: 1:25 WB: 1:2000 IHC-P: 1:25

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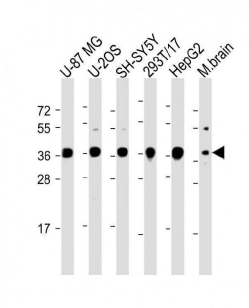
Anti-EN1 (Engrailed 1) Antibody (N-term) (A05395) Images



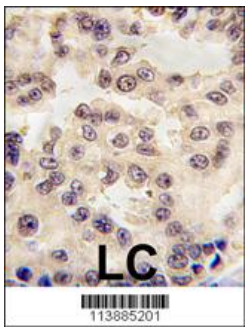
Fluorescent image of U251 cell stained with EN1 Antibody (N-term). U251 cells were fixed with 4% PFA (20 min), permeabilized with Triton X-100 (0. 1%, 10 min), then incubated with EN1 primary antibody (1:25, 1 h at 37°C). For secondary antibody, Alexa Fluor® 488 conjugated donkey anti-rabbit antibody (green) was used (1:400, 50 min at 37°C). Cytoplasmic actin was counterstained with Alexa Fluor® 555 (red) conjugated Phalloidin at 37°C). EN1 immunoreactivity is localized to Nucleus significantly.



Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0. 1% Triton X-100 permeabilized U-2 OS (Human Sarcoma cell line) cells labeling HME1 with A05395 at 1/25 dilution, followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG secondary antibody at 1/400 dilution (green). Immunofluorescence image showing nucleus and nucleoli staining on U-2 OS cell line. Cytoplasmic actin is detected with Alexa Fluor® 555 conjugated with Phalloidin at 1/100 dilution (red).



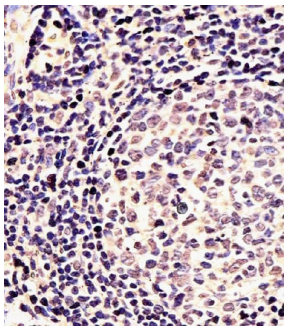
All lanes : Anti-EN1 (Engrailed 1) Antibody (N-term) at 1:2000 dilutionLane 1: U-87 MG whole cell lysateLane 2: U-2OS whole cell lysateLane 3: SH-SY5Y whole cell lysateLane 4: 293T/17 whole cell lysateLane 5: HepG2 whole cell lysateLane 6: Mouse brain lysateLysates/proteins at 20 µg per lane. SecondaryGoat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 40 kDaBlocking/Dilution buffer: 5% NFDM/TBST.



Formalin-fixed and paraffin-embedded human lung carcinoma tissue reacted with EN1 antibody (N-term) (Cat. #A05395), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

A05395 staining EN1 in Human tonsil tissue sections by Immunohistochemistry (IHC-P -paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 3% BSA for 0. 5 hour at room temperature; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody (1/25) for 1 hours at 37°C. A undiluted biotinylated goat polyvalent antibody was used as the

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secondary antibody.

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