

Rabbit anti-Human, Mouse EN1 (Engrailed 1) Polyclonal Antibody | anti-EN1 antibody

EN1 (Engrailed 1) Antibody (N-term)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA28756	Rabbit	Human, Mouse	Western Blot, ELISA, Immunohistochemistry, Immunofluorescence

PRODUCT SYNONYMS

EN1 (Engrailed 1); Polyclonal Antibody; EN1 (Engrailed 1) Antibody (N-term); Homeobox protein engrailed-1; Homeobox protein en-1; Hu-En-1; EN1; anti-EN1 antibody

PRODUCT SPECIFICATIONS

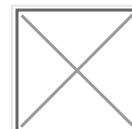
Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	This EN1 (Engrailed 1) antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human EN1 (Engrailed 1).
Purity/Purification	This antibody is purified through a protein A column, followed by peptide affinity purification.
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.
Sequence Positions	1-30
Sequence Length	392
Applicable Applications for anti-EN1 antibody	WB (Western Blot), ELISA, IHC (Immunohistochemistry), IF (Immunofluorescence)
Application Notes	IF~~~1:25 WB~~~1:2000 IHC-P~~1:25
Cellular Location	Nucleus
Function	Required for proper formation of the apical ectodermal ridge and correct dorsal-ventral patterning in the limb.
Preparation and Storage	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.

IMAGES



IHC (Immunohistochemistry)

Formalin-fixed and paraffin-embedded human lung carcinoma tissue reacted with EN1 antibody (N-term) (Cat.#AAA28756), 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.



IF (Immunofluorescence)

Fluorescent image of U251 cell stained with EN1 Antibody (N-term).(Cat.#AAA28756). 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 degree C). For secondary antibody, Alexa Fluor® 488 conjugated donkey anti-rabbit antibody (green) was used (1:400, 50 min at 37 degree C). Cytoplasmic actin was counterstained with Alexa Fluor® 555 (red) conjugated Phalloidin (7units/ml, 1 h at 37 degree C). EN1 immunoreactivity is localized to Nucleus significantly.



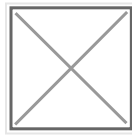
WB (Western Blot)

Western blot analysis of lysates from 293, SH-SY5Y, NCI-H460 cell line (from left to right), using EN1 Antibody (N-term)(Cat. #AAA28756). AAA28756 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysates at 20ug per lane.



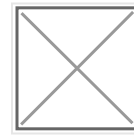
WB (Western Blot)

All lanes : Anti-EN1 Antibody (N-term) at 1:2000 dilution Lane 1: NCI-H460 whole cell lysates Lane 2: SH-SY5Y whole cell lysates Lane 3: PC-3 whole cell lysates Lane 4: Jurkat whole cell lysates Lane 5: 293T whole cell lysates Lysates/proteins at 20 ug per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution Predicted band size : 40 kDa Blocking/Dilution buffer: 5% NFDm/TBST.



IHC (Immunohistochemistry)

AAA28756 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 secondary antibody.



IF (Immunofluorescence)

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized U-2 OS (Human Sarcoma cell line) cells labeling Pdx1 with AAA28756 at 1/25 dilution, followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (1583138) 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 (OB16636430) at 1/100 dilution (red).

ADDITIONAL INFORMATION

Related Product Information for anti-EN1 antibody	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.
Product Categories/Family for anti-EN1 antibody	Crown Antibodies ; Developmental Biology ; Neuroscience ; Signal Transduction
References	Bachar-Dahan,L., Mol. Biol. Cell 17 (6), 2572-2580 (2006) Kohler,A., Genomics 15 (1), 233-235 (1993)

NCBI AND UNIPROT INFORMATION

NCBI GI #	126090909
NCBI GeneID	2019
NCBI Accession #	NP_001417.3
NCBI GenBank Nucleotide #	NM_001426.3
UniProt Accession #	Q05925 ; Q4ZG44
NCBI Official Full Name	homeobox protein engrailed-1
NCBI Official Synonym Full Names	engrailed homeobox 1
NCBI Official Symbol	EN1
NCBI Protein Information	homeobox protein engrailed-1
UniProt Protein Name	Homeobox protein engrailed-1
UniProt Gene Name	EN1
UniProt Synonym Gene Names	Homeobox protein en-1; Hu-En-1
UniProt Entry Name	HME1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/en1-engrailed-1-antibody-western-blot-immunohistochemistry-immunofluorescence-elisa/28756>