

## Product Information

### Anti-EN1 (Engrailed 1)

Developed in Rabbit, Affinity isolated antibody

Product Number **E 6905**

#### Product Description

Anti-EN1 is developed in rabbit using a synthetic peptide, PRTRKLKKKKNEK corresponding to human EN1 (amino acids 289-301) conjugated to BSA as immunogen. The antibody is affinity-purified using the immunizing peptide immobilized on resin.

Anti-EN1 specifically recognizes EN1 (40 kDa) by immunoblotting and immunohistochemistry. The antibody recognizes human and rodent EN1. Other species reactivity has not been confirmed.

EN1 (Engrailed homolog 1) is a transcription factor expressed in embryonic ventral limb ectoderm and is essential for ventral limb patterning. En-1 expression in the developing perichordal tube suggests that it may also be involved in vertebrae assembly. Loss of EN1 function in mice results in dorsal transformations of ventral paw structures and in subtle alterations along the proximal–distal limb axis.

#### Reagent

Anti-EN1 is provided as affinity isolated antibody in a 50% ammonium sulfate suspension in phosphate buffered saline, containing no additional preservatives.

#### Preparation Instructions

##### Method 1 for immunostaining and immunoblotting (Western blot)

1. Carefully resuspend antibody pellet to uniformity.
2. Remove a fixed amount of suspension and dissolve 1:10 in PBS or TBS to yield a 100 µg/ml solution.

##### Method 2 for immunoprecipitation, supershift, immunostaining and immunoblotting (Western blot)

1. Pellet antibodies at 10,000 – 15,000 x g for 10 minutes at 2 to 8 °C using a microcentrifuge.
2. Carefully remove as much supernatant as possible. It is not necessary to remove all the

amount will not effect the antibody preparation. Dissolve the pellet (antibody) in small volume (100 µL) of PBS (or TBS) at final concentration of 1 mg/ml (100 µg/100 µl). Do not allow the pellet to dry out. This can cause loss of activity. Gently allow pellet to dissolve at least 1 hour before use. Do not vortex. Mix by finger-tapping or gentle stirring.

#### Notes:

- Reconstituted antibody may be stored at 2 to 8 °C for up to one month. Addition of a preservative (15 mM sodium azide) may be necessary.
- For extended storage, add an equal volume of high purity glycerol, to a final concentration of 50% and BSA to a final concentration of 1% and store at –20 °C.
- During shipment, small volumes will occasionally become entrapped in the seal of the product vial. We recommend briefly centrifuging the vial in a tabletop centrifuge to dislodge any liquid in the container's cap.

#### Storage/Stability

Store ammonium sulfate suspension at 2 to 8 °C for up to one month.

For extended storage, freeze in working aliquots.

Reconstituted and diluted antiserum should be stored in aliquots at –20 °C.

#### Product Profile

Recommended dilutions are 1:200 to 1:1,000 for immunoblotting and immunohistochemistry.

Note: In order to obtain best results and assay sensitivity in different techniques and preparations we recommend determining optimal working dilutions by titration test.

Sigma brand products are sold through Sigma-Aldrich, Inc.

Sigma-Aldrich, Inc. warrants that its products conform to the information contained in this and other Sigma-Aldrich publications. Purchaser must determine the suitability of the product(s) for their particular use. Additional terms and conditions may apply. Please see reverse side of the invoice or packing slip.