Product datasheet

Anti-MGP antibody ab86233

Product name: Anti-MGP antibody
Description: Rabbit polyclonal to MGP
Host species: Rabbit
Tested applications: Suitable for: IHC-P, WB
Species reactivity: Reacts with: Human
Predicted to work with: Rat, Guinea pig
Immunogen: Synthetic peptide corresponding to a region within the internal sequence amino acids 36-85 of Human MGP (NRRNANTFISPOQRWRAKVQERIERSKPVHELNREA CDDYRCERYAMV) NP_000891
Positive control: Jurkat cell lysate

Properties
Form: Liquid
Storage instructions: Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer: Preservative: 0.09% Sodium azide
Constituents: PBS, 2% Sucrose
Purity: Immunogen affinity purified
Clonality: Polyclonal
Isotype: IgG

Applications
Our Abpromise guarantee covers the use of ab86233 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.
### Function
Associates with the organic matrix of bone and cartilage. Thought to act as an inhibitor of bone formation.

### Involvement in disease
Defects in MGP are the cause of Keutel syndrome (KS) [MIM:245150]. KS is an autosomal recessive disorder characterized by abnormal cartilage calcification, peripheral pulmonary stenosis neural hearing loss and midfacial hypoplasia.

### Sequence similarities
Belongs to the osteocalcin/matrix Gla protein family. Contains 1 Gla (gamma-carboxy-glutamate) domain.

### Post-translational modifications
Requires vitamin K-dependent gamma-carboxylation for its function.

### Cellular localization
Secreted.

### Images

**Western blot - Anti-MGP antibody (ab86233)**

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<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
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<tbody>
<tr>
<td>IHC-P</td>
<td>⭐⭐⭐⭐⭐</td>
<td>Use a concentration of 2.5 µg/ml.</td>
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<tr>
<td>WB</td>
<td></td>
<td>Use a concentration of 1 µg/ml. Predicted molecular weight: 12 kDa. Good results were obtained when blocked with 5% non-fat dry milk in 0.05% PBS-T.</td>
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**Anti-MGP antibody (ab86233) at 1 µg/ml + Jurkat cell lysate at 10 µg**

**Secondary**
HRP conjugated anti-Rabbit IgG at 1/50000 dilution

**Predicted band size**: 12 kDa

**Observed band size**: 12 kDa

**Additional bands at**: >60 kDa, 30 kDa. We are unsure as to the identity of these extra bands.

**Gel concentration**: 10-20%
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human small intestine tissue labelling MGP with ab86233 at 2.5µg/ml.

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