Product datasheet

Anti-Parathyroid Hormone antibody [EPR8481] ab166632

Overview

Product name: Anti-Parathyroid Hormone antibody [EPR8481]
Description: Rabbit monoclonal [EPR8481] to Parathyroid Hormone
Host species: Rabbit
Tested applications: Suitable for: ELISA, WB, IHC-P
Unsuitable for: ICC/IF or IP

Species reactivity: Reacts with: Human

Immunogen: Synthetic peptide corresponding to residues in Human Parathyroid Hormone was used as an immunogen (UniProt ID: P01270). (The amino acid sequence is considered to be commercially sensitive).

Positive control: Recombinant protein; Human parathyroid gland tissue.

General notes: Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.

Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

This product is a recombinant rabbit monoclonal antibody.

Properties

Form: Liquid
Storage instructions: Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer: Preservative: 0.01% Sodium azide
Constituents: 9% PBS, 40% Glycerol, 0.05% BSA, 50% Tissue culture supernatant
Purity: Tissue culture supernatant
Clonality: Monoclonal
Clone number: EPR8481
Isotype: IgG
Function
PTH elevates calcium level by dissolving the salts in bone and preventing their renal excretion.
Stimulates [1-14C]-2-deoxy-D-glucose (2DG) transport and glycogen synthesis in osteoblastic cells.

Involvement in disease
Defects in PTH are a cause of familial isolated hypoparathyroidism (FIH) [MIM:146200]; also called autosomal dominant hypoparathyroidism or autosomal dominant hypocalcemia. FIH is characterized by hypocalcemia and hyperphosphatemia due to inadequate secretion of parathyroid hormone. Symptoms are seizures, tetany and cramps. FIH exist both as autosomal dominant and recessive forms of hypoparathyroidism.

Sequence similarities
Belongs to the parathyroid hormone family.

Cellular localization
Secreted.

Applications
Our Abpromise guarantee covers the use of ab166632 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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<th>Abreviews</th>
<th>Notes</th>
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<td>ELISA</td>
<td>Use at an assay dependent concentration.</td>
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<tr>
<td>WB</td>
<td>1/1000 - 1/10000. Predicted molecular weight: 13 kDa.</td>
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<tr>
<td>IHC-P</td>
<td>1/250 - 1/500. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.</td>
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Application notes
Is unsuitable for ICC/IF or IP.

Target

Images
Anti-Parathyroid Hormone antibody [EPR8481] (ab166632) at 1/1000 dilution + 10ng of tagged recombinant Human Parathyroid Hormone

Predicted band size: 13 kDa
Direct ELISA antibody dose-response curve using recombinant anti-Human Parathyroid Hormone antibody (ab166632) against full length human parathyroid hormone protein followed Alkaline Phosphatase conjugated Goat Anti-Rabbit IgG secondary antibody.
Antigen concentration: 100 ng/ml
Primary ab concentration: 0-1000 ng/ml
Secondary ab concentration: 1:200 dilution

Immunohistochemical analysis of paraffin embedded Human parathyroid gland tissue labeling Parathyroid Hormone with ab166632 at a 1/250 dilution.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

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