

Product datasheet

Anti-Growth Hormone antibody ab64499

Overview

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| Product name | Anti-Growth Hormone antibody |
| Description | Sheep polyclonal to Growth Hormone |
| Host species | Sheep |
| Tested applications | Suitable for: ELISA, RIA, IRMA, IHC-P |
| Species reactivity | Reacts with: Human |
| Immunogen | Full length native purified Human Growth Hormone |

Properties

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|-----------------------------|---|
| Form | Liquid |
| Storage instructions | Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. |
| Storage buffer | Preservative: 0.09% Sodium azide Constituent: Whole serum |
| Purity | Whole antiserum |
| Clonality | Polyclonal |
| Isotype | IgG |

Applications

Our [Abpromise guarantee](#) covers the use of **ab64499** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

| Application | Abreviews | Notes |
|-------------|-----------|---|
| ELISA | | Use at an assay dependent concentration. |
| RIA | | Use at an assay dependent concentration. |
| IRMA | | Use at an assay dependent concentration. |
| IHC-P | | 1/200. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. |

Target

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|-------------------------------|---|
| Function | Plays an important role in growth control. Its major role in stimulating body growth is to stimulate the liver and other tissues to secrete IGF-1. It stimulates both the differentiation and proliferation of myoblasts. It also stimulates amino acid uptake and protein synthesis in muscle and other tissues. |
| Involvement in disease | <p>Defects in GH1 are a cause of growth hormone deficiency isolated type 1A (IGHD1A) [MIM:262400]; also known as pituitary dwarfism I. IGHD1A is an autosomal recessive deficiency of GH which causes short stature. IGHD1A patients have an absence of GH with severe dwarfism and often develop anti-GH antibodies when given exogenous GH.</p> <p>Defects in GH1 are a cause of growth hormone deficiency isolated type 1B (IGHD1B) [MIM:612781]; also known as dwarfism of Sindh. IGHD1B is an autosomal recessive deficiency of GH which causes short stature. IGHD1B patients have low but detectable levels of GH. Dwarfism is less severe than in IGHD1A and patients usually respond well to exogenous GH.</p> <p>Defects in GH1 are the cause of Kowarski syndrome (KWKS) [MIM:262650]; also known as pituitary dwarfism VI.</p> <p>Defects in GH1 are a cause of growth hormone deficiency isolated type 2 (IGHD2) [MIM:173100]. IGHD2 is an autosomal dominant deficiency of GH which causes short stature. Clinical severity is variable. Patients have a positive response and immunologic tolerance to growth hormone therapy.</p> |
| Sequence similarities | Belongs to the somatotropin/prolactin family. |
| Cellular localization | Secreted. |

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