abcam

Product datasheet

Human Glucocorticoid Receptor alpha peptide ab39764

Description

Product name	Human Glucocorticoid Receptor alpha peptide
Purity	> 90 % SDS-PAGE.
Animal free	No
Nature	Synthetic
Species	Human
Sequence	CEIITNQIPKYSNGNIKK
Amino acids	755 to 771

Specifications

Our **Abpromise guarantee** covers the use of **ab39764** in the following tested applications.

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

Applications	Neutralising Blocking - Blocking peptide for Anti-Glucocorticoid Receptor alpha antibody (**ab3580**)
Form	Lyophilized

Preparation and Storage

Stability and Storage	Shipped at 4°C. Store at -20°C. Avoid freeze / thaw cycle. Double distilled water.
Reconstitution	Reconstitute with 0.1ml distilled water for a 0.5mg/ml solution.

General Info

Relevance	Glucocorticoids are a family of steroids necessary for the regulation of energy metabolism and the immune and inflammatory responses. These compounds exert their effect through their interaction with the Glucocorticoid Receptor (GR) and that complex's subsequent association with DNA. All normal mammalian tissues examined to date have been shown to contain GR. The human GR exists in two forms, alpha and beta, which are thought to be the result of alternative splicing of a

	single gene. Sequence analysis indicates that alpha and beta forms of human GR are 777 and 742 amino acids long, respectively. They are identical up to residue 727, after which they diverge. After ligand binding, the 94 kDa GR alpha isoform translocates from the cytoplasm to the nucleus where it regulates gene expression. In contrast, the 90 kDa GR beta isoform does not appear to bind either glucocorticoid agonists or antagonists, and has been localized predominantly in the nucleus independent of hormone treatment in some human cell lines. Studies suggest that human GR alpha has a greater affinity for GR response elements (GREs) than GR beta only when in the ligand bound state.
Cellular localization	Cytoplasm. Nucleus. Cytoplasmic in the absence of ligand; nuclear after ligand-binding.

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