Product datasheet

Anti-Glucocorticoid Receptor beta antibody ab3581

6 References  2 Images

Overview

Product name  Anti-Glucocorticoid Receptor beta antibody
Description  Rabbit polyclonal to Glucocorticoid Receptor beta
Host species  Rabbit
Tested applications  Suitable for: ICC/IF, IHC-P, Flow Cyt, GSA, ICC, IP, WB
Species reactivity  Reacts with: Sheep, Human, Pig
Immunogen  Synthetic peptide corresponding to Human Glucocorticoid Receptor beta aa 728-742.
Sequence: NVMWLKPESTSHTLI

(Peptide available as ab39765)

Properties

Form  Liquid
Storage instructions  Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer  Preservative: 0.05% Sodium azide
Constituent: 99% PBS
Purity  Whole antiserum
Clonality  Polyclonal
Isotype  IgG

Applications

Our Abpromise guarantee covers the use of ab3581 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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**Function**  
Receptor for glucocorticoids (GC). Has a dual mode of action: as a transcription factor that binds to glucocorticoid response elements (GRE) and as a modulator of other transcription factors. Affects inflammatory responses, cellular proliferation and differentiation in target tissues. Could act as a coactivator for STAT5-dependent transcription upon growth hormone (GH) stimulation and could reveal an essential role of hepatic GR in the control of body growth. Involved in chromatin remodeling. Plays a significant role in transactivation. Involved in nuclear translocation.

**Tissue specificity**  
Widely expressed. In the heart, detected in left and right atria, left and right ventricles, aorta, apex, intraventricular septum, and atrioventricular node as well as whole adult and fetal heart.

**Involvement in disease**  
Defects in NR3C1 are a cause of glucocorticoid resistance (GCRES) [MIM:138040]; also known as cortisol resistance. It is a hypertensive, hyperandrogenic disorder characterized by increased serum cortisol concentrations. Inheritance is autosomal dominant.

**Sequence similarities**  
Belongs to the nuclear hormone receptor family. NR3 subfamily. Contains 1 nuclear receptor DNA-binding domain.

**Domain**  
Composed of three domains: a modulating N-terminal domain, a DNA-binding domain and a C-terminal ligand-binding domain.

**Post-translational modifications**  
Increased proteasome-mediated degradation in response to glucocorticoids. Phosphorylated in the absence of hormone; becomes hyperphosphorylated in the presence of glucocorticoids.
glucocorticoid. The Ser-203-phosphorylated form is mainly cytoplasmic, and the Ser-211-phosphorylated form is nuclear. Transcriptional activity correlates with the amount of phosphorylation at Ser-211.

Sumoylated; this reduces transcription transactivation.

Ubiquitinated; restricts glucocorticoid-mediated transcriptional signaling.

**Cellular localization**


**Images**

ICC/IF image of ab3581 stained HeLa cells. The cells were 4% formaldehyde fixed (10 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab3581, 5µg/ml) overnight at +4°C. The secondary antibody (green) was Alexa Fluor® 488 goat anti-rabbit IgG (H+L) used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.

All lanes: Anti-Glucocorticoid Receptor beta antibody (ab3581) at 1/500 dilution

Lane 1: COS-74 whole cell extract transfected with Glucocorticoid Receptor alpha

Lane 2: COS-74 whole cell extract transfected with Glucocorticoid Receptor beta

**Predicted band size:** 83 kDa

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