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Certificate of Analysis and Data Sheet Sheep Anti Glucocorticoid Receptor (GR)

Catalog No.
MD-14-0331

Species
Monkey and human

Isotype
Sheep IgG

Background

The glucocorticoid receptor (GR) is an ubiquitously expressed transcription factor that mediates the effects of glucocorticoids. The most abundant isoform is GR α . GR induces or represses the expression of genes in response to glucocorticoids, mediating such processes as apoptosis and cell growth and differentiation. A significant class of genes suppressed by GR is controlled by the transcription factor AP-1. GR has also been shown to be the limiting factor in the induction of gene expression by glucocorticoids. It has been revealed that GR forms a complex with HSP 90, rendering the nonligand bound receptor transcriptionally inactive. More importantly, mutant GRs lacking the signaling domain remain constitutively active.

Specificity

Reacts specifically with monkey and human glucocorticoid receptor.

Applications

Table Summary of antibody applications and working conditions

Options Functions	YES	NO	Not determined	Recommended Work dilution or concentration
ELISA			.	
Western Blotting	.			1:500-1:1,000
Immunohistology			.	
Immunoblotting			.	
Immunofluorescence staining			.	
Neutralization			.	

Note: Other applications are not tested yet. Optimal dilutions should be determined by each laboratory for each application.

**The products are furnished for LABORATORY RESEARCH USE ONLY.
Not for diagnostic or therapeutic use.**



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Preparation

The immunogen of this antibody is peptide consisting of amino acids 150-175 of squirrel monkey glucocorticoid receptor coupled to diphtheria toxoid. This sequence is identical in human glucocorticoid receptor except for 2 amino acids (underlined): N terminus - APKEKEFPKTHSDVSSEQNLKGQTG-NH₂ - C terminus.

Formulation

Neat, Liquid

Storage

Stores (at least 1 year) at -20°C to -70°C .
Aliquot to avoid multiple freeze/thaw cycles.

References

- 1) Hollenberg, S.M., et al. 1985. Primary structure and expression of a functional human glucocorticoid receptor cDNA. *Nature* 318: 635-641.
- 2) Strähle, U., et al. 1992. At least three promoters direct expression of the mouse glucocorticoid receptor gene. *Proc. Natl. Acad. Sci. USA* 89: 6731-6735.
- 3) Gorovits, R., et al. 1994. Developmental changes in the expression and compartmentalization of the glucocorticoid receptor in embryonic retina. *Proc. Natl. Acad. Sci. USA* 91: 4786-4790.

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