

# Human ACTH Quantitation Set



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## DESCRIPTION

ACTH stimulates secretion of glucocorticoid steroid hormones from adrenal cortex cells, especially in the zona fasciculata of the adrenal glands. ACTH acts by binding to cell surface ACTH receptors, which are located primarily on adrenocortical cells of the adrenal cortex. The ACTH receptor is a seven-membrane-spanning G protein-coupled receptor. Upon ligand binding, the receptor undergoes conformation changes that stimulate the enzyme adenylyl cyclase, which leads to an increase in intracellular cAMP and subsequent activation of protein kinase A.

## SPECIES REACTIVITY

ACTH monoclonal antibodies (2L24 and 2020) recognize human ACTH protein

## SENSITIVITY

The limit of detection for antibody pair is less than 3.32 pg/mL

## PRODUCT BUFFER

10 mM Hepes , 75 mM NaCl , pH 7.5 , containing 0.05% Procline 300

## STORAGE

Stored at -20°C or below until use. Avoid repeated freezing and thawing cycles.

## PRODUCTS INFORMATION

Cat. NO	Clone	Ig Subclass
D10006	2L24	IgG2b
D10007	2020	IgG1

## RECOMMEND ANTIBODY DILUTION

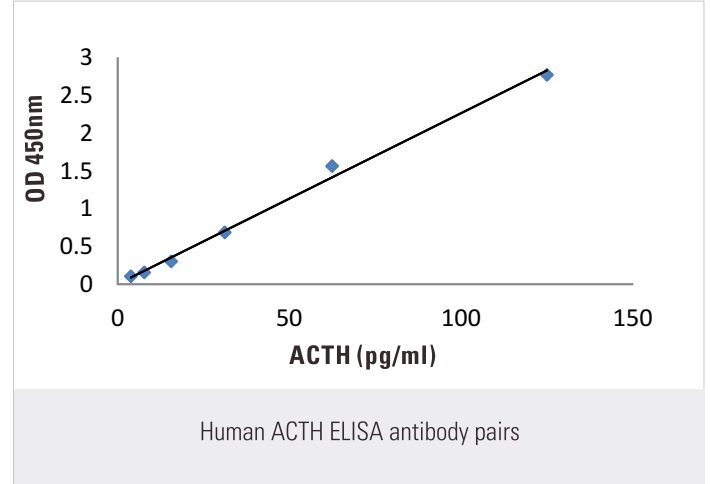
ELISA Capture :1-10 µg/mL

ELISA Detection: 0.1-0.5 µg/mL

Recommended antibody pairing for sandwich immunoassay:

Capture Detection	D10006 (2L24)	D10007 (2020)
D10006 (2L24)		-
D10007 (2020)	+	

## APPLICATION DATA



## GENERAL CONDITIONS:

1. Microplate was incubated with streptavidin and blocked with PBS containing 5%BSA one hour at 37°C, followed by 5 washing cycles;
2. Add ACTH protein into well as soon as possible;
3. Add Biotinylated antibody against ACTH into well;
4. Add HRP-labeled antibody against ACTH, incubation for 4.5 hours at 37°C;
5. Absorbance determination of bound peroxidase activity

## COMPANION PRODUCTS

- #T40008 CD3 Antibody
- #T40009 CD4 Antibody
- #T40010 CD8 Antibody
- #T40011 CD46 Antibody
- #T40012 CD47 Antibody

**Reactivity Key:** H–human, M–mouse, R–rat, ChHm–Chinese hamster, Mk–monkey, C–chicken, Dm–D.melanogaster, X–xenopus, Z–zebrafish, B–bovine, Dg–dog, Pg–pig, Sc–S.cerevisiae, Ce–C.elegans, Hr–horse