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Recombinant anti-POMC antibody (N-Term)

2 Images



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Quantity:	100 μg	
Target:	POMC	
Binding Specificity:	N-Term	
Reactivity:	Human, Mouse, Rat	
Host:	Mouse	
Antibody Type:	Recombinant Antibody	
Clonality:	Monoclonal	
Application:	ELISA, Immunohistochemistry (IHC), Coating (Coat), Staining Methods (StM)	

Product Details

Immunogen:	N-terminal fragment of human ACTH conjugated to KLH		
Clone:	R57		
Isotype:	IgG1 kappa		
Specificity:	ACTH (same as Corticotropin) is a 39 amino acid active peptide produced by the anterior		
	pituitary. This MAb is specific to Synacthen (aa1-24 of ACTH), does not react with CLIP (aa17-		
	39 of ACTH). POMC (pro-opiomelanocortin or corticotropin-lipotropin) is a 267 amino acid		
	polypeptide hormone precursor that goes through extensive, tissue-specific posttranslational		
	processing by convertases. POMC is cleaved into ten hormone chains named NPP, ACTH,		
	alpha-MSH (Melanocyte Stimulating Hormone), beta-MSH, gamma-MSH, CLIP (corticotropin-		
	like intermediary peptide), Lipotropin-beta, Lipotropin-gamma, beta-endorphin and Met-		
	enkephalin. ACTH is also produced by cells of immune system (T-cells, B-cells, and		

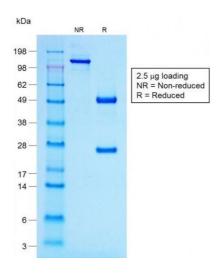
Product Details

	macrophages) in response to stimuli associated with stress. Anti-ACTH is a useful marker in
	classification of pituitary tumors and the study of pituitary disease. It reacts with ACTH-
	producing cells (corticotrophs).It also may react with other tumors (e.g. some small cell
	carcinomas of the lung) causing paraneoplastic syndromes by secreting ACTH.
Cross-Reactivity (Details):	Expected to show a broad species reactivity.
Purification:	Purified by Protein A/G
Target Details	
Target:	POMC
Alternative Name:	POMC (POMC Products)
Molecular Weight:	ACTH is ~5kDa, and the POMC precursor is ~30kDa. The molecular weight of POMC depends
	upon isoform variation and post-translational modifications.
Gene ID:	5443
UniProt:	P01189
Pathways:	Metabolism of Steroid Hormones and Vitamin D, Peptide Hormone Metabolism, Hormone
	Activity, Feeding Behaviour
Application Details	
Application Notes:	Positive Control: Normal pituitary gland or pituitary tumor.
	Known Application: ELISA (For coating, order Ab without BSA), Immunohistochemistry
	(Formalin-fixed) (0.5-1.0 μ g/mL for 30 minutes at RT) (Staining of formalin-fixed tissues
	requires boiling tissue sections in 10 mM Citrate Buffer, pH 6.0, for 10-20 min followed by
	cooling at RT for 20 minutes)Optimal dilution for a specific application should be determined.
Restrictions:	For Research Use only
Handling	
Handling Concentration:	200 μg/mL
	200 μg/mL 10 mM PBS with 0.05 % BSA & 0.05 % azide.
Concentration:	
Concentration: Buffer:	10 mM PBS with 0.05 % BSA & 0.05 % azide.

Handling

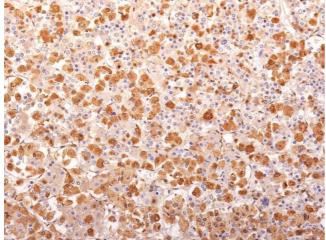
Storage:	4 °C,-80 °C
Storage Comment:	Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.
Expiry Date:	24 months

Images



SDS-PAGE

Image 1. SDS-PAGE Analysis Purified ACTH Mouse Recombinant Monoclonal Antibody (r57). Confirmation of Purity and Integrity of Antibody.



Immunohistochemistry

Image 2. Formalin-fixed, paraffin-embedded human Pituitary Gland stained with ACTH Mouse Recombinant Monoclonal Antibody (r57).