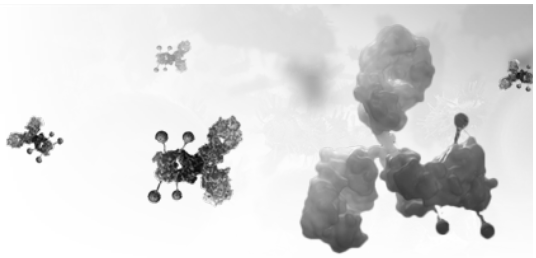

Rat Anti-Human HSP90α monoclonal antibody, clone 0E3 (CABT-L3224)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Immunogen	Purified Hsp90 isolated from human therapeutic orchiectomy specimens.
Isotype	IgG2a
Source/Host	Rat
Species Reactivity	Human, Chicken
Clone	0E3.
Purification	Protein G affinity purified
Conjugate	Unconjugated
Applications	FC, ICC, IHC, IP, WB, ELISA
Format	Liquid
Concentration	Lot specific
Size	1 mg
Buffer	PBS, pH 7.2, containing 50% glycerol
Preservative	0.09% Sodium Azide
Storage	Store at -20°C
Ship	Wet ice

BACKGROUND

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Introduction	The Hsp90 family of heat shock proteins represents one of the most abundantly expressed and highly conserved families of cellular chaperones whose expression can be upregulated under conditions of cellular stress, and includes cytoplasmic (Hsp90-alpha/beta), ER (grp94), and mitochondrial (TRAP1) localized members. Structurally, Hsp90 is characterized by an N-terminal ATP-binding domain, a medial substrate-binding domain, and a C-terminal dimerization motif. Hsp90 dimers function in cooperation with cochaperones (e.g. Hsp40, Hsp70, Hop, p23) to stabilize a multitude of client protein substrates, including steroid hormone receptors, protein kinases, and transcription factors. The essential binding and hydrolysis of ATP by Hsp90 is inhibited by ansamycin drugs (e.g. geldanamycin, 17-AAG) which occupy the N-terminal Hsp90 nucleotide-binding pocket. Many Hsp90 client proteins such as erbB2/Her-2, c-raf, bcr-abl, p53, and hTERT, are members of well characterized oncogenic pathways, making Hsp90 inhibitors useful anticancer agents.
Keywords	HSP86;Heat shock protein 90α;heat shock protein;Hsp90

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