Human/Mouse/Rat HSP90β Alexa Fluor® 532-conjugated Antibody

Monoclonal Mouse IgG_{2A} Clone # 341346

Catalog Number: FAB32861X

100 µg

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects human, mouse, and rat HSP90β in Western blots and direct ELISAs. In Western blots and direct ELISAs, no cross-reactivity with recombinant human HSP90α is observed.
Source	Monoclonal Mouse IgG_{2A} Clone # 341346
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*E. coli*-derived recombinant human HSP90β Met1-Asp724 Accession # P08238
Conjugate	Alexa Fluor 532 Excitation Wavelength: 534 nm Emission Wavelength: 553 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

Knockout Validated	Optimal dilution of this antibody should be experimentally determined.
Western Blot	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

HSP90 is a composite name for a large group of Heat Shock Proteins whose molecular weights average 90 kDa. HSPs function primarily as a molecular chaperone, facilitating the folding of other cellular proteins, preventing protein aggregation, or targeting improperly folded proteins to specific degradative pathways. HSP90 is a central component in a number of basic cellular processes including hormone signaling and cell cycle control. HSP90 is ubiquitously expressed, highly conserved and accounts for 1-2% of the total cellular protein. Recently introduced, standardized nomenclature has divided the 17 identified HSP90 genes into three related and one unrelated classes, HSP90AA, HSP90AB, HSP90BB, and TRAP, respectively. Eukaryotic cells have two principal isoforms of HSP90. The antibody described here reacts with the constitutively expressed, 724 amino acid, HSP90AB1-isoform 1 (also known as HSP90β, HSP90B, HSPCB, HSPC2, and HSP89β). The inducible form, HSP90AA1, is a 737 amino acid protein (also known as HSP90α, HSP90A, HSPC1, HSPCA, HSP89α and LAP2). HSP90AB1-1 and HSP90AA share 90% identity.

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