

DESCRIPTION

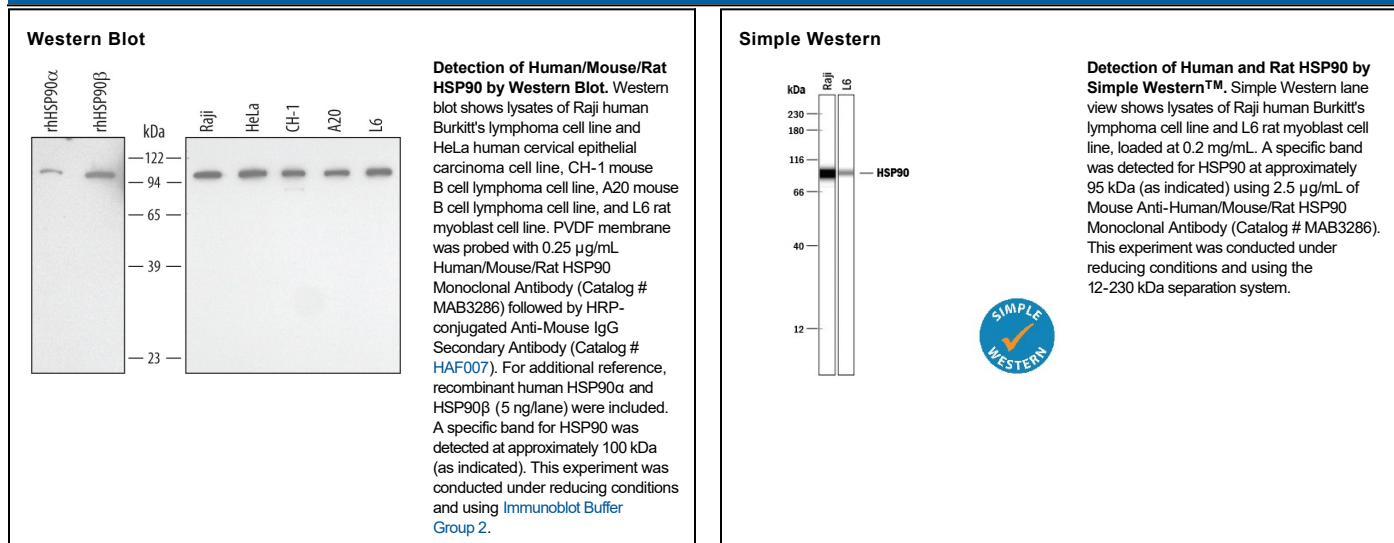
| | |
|---------------------------|---|
| Species Reactivity | Human/Mouse/Rat |
| Specificity | Detects human, mouse and rat HSP90 in direct ELISAs and Western blots. Reacts with both recombinant human HSP90 α and HSP90 β isoforms in direct ELISAs and Western blots. |
| Source | Monoclonal Mouse IgG _{2B} Clone # 341320 |
| Purification | Protein A or G purified from hybridoma culture supernatant |
| Immunogen | <i>E. coli</i> -derived recombinant human HSP90 β Met1-Asp724 Accession # P08238 |
| Formulation | Lyophilized from a 0.2 μ m filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 μ m filtered solution in PBS. |

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.

| | Recommended Concentration | Sample |
|-----------------------|---------------------------|-----------|
| Western Blot | 0.25 μ g/mL | See Below |
| Simple Western | 2.5 μ g/mL | See Below |

DATA



PREPARATION AND STORAGE

| | |
|--------------------------------|---|
| Reconstitution | Reconstitute at 0.5 mg/mL in sterile PBS. |
| Shipping | The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C |
| Stability & Storage | Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> 12 months from date of receipt, -20 to -70 °C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 6 months, -20 to -70 °C under sterile conditions after reconstitution. |

BACKGROUND

HSP90 is a composite name for a large group of Heat Shock Proteins whose molecular weights average 90 kDa. HSPs functions 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 724 amino acid constitutively expressed HSP90AB1-isoform 1 (also known as HSP90 β , HSP90B, HSPCB, HSPC2, and HSP89 β) and also with the 737 amino acid inducible form, HSP90AA1 (also known as HSP90 α , HSP90A, HSPC1, HSPCA, HSP89 α and LAP2). HSP90AB1-1 and HSP90AA share 90% identity.