

Hsp90 α -specific antibodies

Many companies claim to sell Hsp90 α -specific antibodies, but few of them actually are! The four columns on the right, with headers highlighted in salmon color, contain information based on our own experience. Our favorites are the top two (names in red).

Name of antibody	Commercial source (example)	Antibody type	Immunogen	Specific with human KO cell lines	Specific with <i>E. coli</i> -made Hsp90s	Recognition of mouse Hsp90 α	Our comments
ADI-SPA-840 (9D2)	Enzo Life Sciences	Rat monoclonal	Hsp90 α from human sample	yes	yes	no!!!	against human and chicken Hsp90 α ; great monoclonal, but really does not recognize mouse Hsp90 α at all
380 003	SYSY (Synaptic Systems)	Rabbit polyclonal	Synthetic peptide of AA 701-717	yes	not tested	yes	works well
PA3-013	Thermo Fisher Scientific	Rabbit polyclonal	Synthetic peptide of AA 2-12 of Hsp90 α		not specific for Hsp90 α	yes	multiple aliquots/sources tested; not α -specific (anymore?) despite absolutely α -specific epitope
EMD-17D7	Merck	Mouse monoclonal	Recombinant human Hsp90 α	yes	yes	yes	looks fine; also recognizes yeast Hsp90 (Hsp82?)
2G5G3 / SMC-147	Abcam, StressMarq	Mouse monoclonal	Recombinant human Hsp90 α		yes	yes	looks fine
4F3.E8 / SMC-149	Abcam, StressMarq	Mouse monoclonal	Human Hsp90 α from <i>E. coli</i>		not specific for Hsp90 α	yes	both α and β (plus some non-specific bands in bacterial extract)
K41009 / SMC-108	StressMarq	Mouse monoclonal	Recombinant human Hsp90 α		yes	yes (weaker)	epitope mapped to AA 604-732; looks fine
D7 α (ab59459)	Abcam	Mouse monoclonal	Chicken Hsp90				weak?

ADI-SPS-771	Enzo Life Sciences	Rabbit polyclonal	Peptide corresponding to portion of mouse Hsp90 α		not specific for Hsp90 α	yes	both α and β ; antibody may be similar/identical to PA3-013
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Hsp90 β -specific antibodies

There are probably several more, but since H90-10 is such a fantastic antibody, look no further!

Name of antibody	Commercial source (example)	Antibody type	Immunogen	Specific with human KO cell lines	Specific with <i>E. coli</i> -made Hsp90s	Recognition of mouse Hsp90 β	Our comments
H90-10	Abcam, Thermo Fisher, many others	Mouse monoclonal	Human Hsp90 β	yes	yes	yes	Epitope might be charged region; does not recognize yeast Hsp90
H90-10 ScFv	Geneva Antibody Facility	Single-chain antibody		yes	yes	yes	This is a single-chain antibody with the antigen-binding scFv (variable region identical to the original H90-10) fused to the Fc region of, for example, mouse IgG2a. Ref.: Abboud et al. (2021) Antibody Reports 4, e285.