

Recombinant Heat Shock Protein 105 kDa / HSP105 (Basaloid Skin Tumor Marker) Antibody

Mouse Monoclonal Antibody [Clone r58F12]

Catalog No	Format	Size
10808-MSM3-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
10808-MSM3-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
10808-MSM3-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

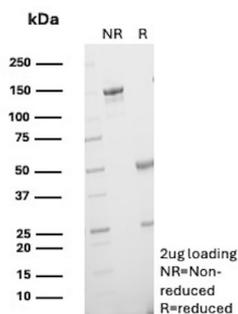
Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes
Western Blot (WB)	2-4ug/ml	

Product Details

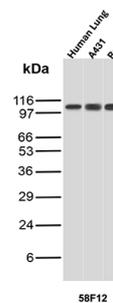
Clone	r58F12
Gene Name	HSPH1
Immunogen	Prokaryotic recombinant protein of 31 kD corresponding to the C-terminus of the heat shock protein 105 molecule
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG1 / Kappa
Mol. Weight of Antigen	105kDa
Cellular Localization	Cytoplasm, Nucleus
Species Reactivity	Human
Positive Control	Human brain or testis. A431, Raji. Lung.

*Optimal dilution for a specific application should be determined.

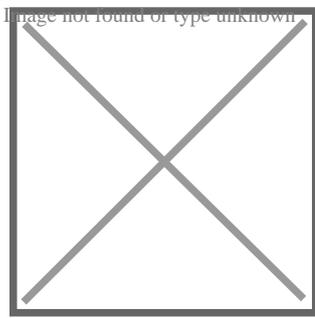
Product Images for Recombinant Heat Shock Protein 105 kDa / HSP105 (Basaloid Skin Tumor Marker) Antibody



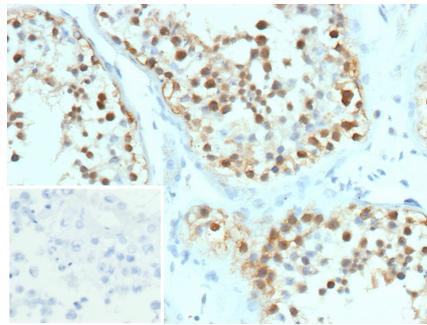
SDS-PAGE Analysis of Purified Heat Shock Protein 105 Recombinant Mouse Monoclonal Antibody (r58F12). Confirmation of Purity and Integrity of Antibody.



Western Blot Analysis of Human Lung, A431 and Raji lysates using HSP105 Recombinant Mouse Monoclonal Antibody (r58F12).



Western Blot Analysis of Lung tissue lysates of different species using HSP105 Recombinant Mouse Monoclonal Antibody (r58F12).



Formalin-fixed, paraffin-embedded human testis stained with Heat Shock Protein 105 Recombinant Mouse Monoclonal Antibody (r58F12). Inset: PBS instead of primary antibody; secondary only negative control.

Specificity & Comments

Heat shock protein (HSP) 105 exists as two isoforms; alpha and beta which belong to the HSP105/HSP110 protein family. HSP105 acts as both a chaperone to prevent thermal aggregation of proteins and as a regulator of mammalian cells. The HSP105 isoforms are found in the cytoplasm but not in the nucleoli under non-stressed and stressed conditions. In rodents, HSP105 isoforms are moderately expressed in the adrenal glands, spleen, liver and heart and both are markedly increased after heat shock. In the testis, HSP105 is specifically localized in the cytoplasm of germ cells and may translocate to the nucleus after heat shock. The most abundant expression occurs in the brain with nuclear and cytoplasmic expression in nearly all neurones, oligodendrocytes, microglia and astrocytes. Increased expression during embryogenesis suggests that HSP105 may have an important role during mouse embryo development.

Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis. There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

Supplied As

200ug/ml of Ab produced in CHO cell mammalian-based expression system. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

Storage and Stability

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.

Research Areas

BBB VCAM-1 Signaling, Immunology, Infectious Disease, MAPK Signaling, Signal Transduction