Product Information Sheet

Monoclonal Anti-Heat Shock Protein 25, *HSP25*

Catalogue No. MA1048

Lot No. 08A12

Clone: SJ-25

Ig type: mouse IgG1

Size: 100µg/vial

Specificity

Human.

No cross reactivity with other proteins.

Recommended application

Western blot

Immunohistochemistry(P)

Immunohistochemistry(F)

Immunocytochemistry

Immunogen

Partially purified inhibitor of actin polymerization (IAP) protein from turkey gizzard smooth muscle.

Purification

Purified by the goat anti-mouse IgG affinity chromatography.

Application

Western blot

At 0.5-2µg/ml with the appropriate system to detect HSP25 in cells and tissues.

Immunohistochemistry(P)

At 1-2µg/ml to detect HSP25 in formalin fixed and paraffin embedded tissues. Boiling the sections may improve the staining.

Immunohistochemistry(F)

At 1-2µg/ml to detect HSP25 in formalin or acetone fixed tissues.

Immunocytochemistry Suitable

Other applications have not been tested.

Optimal dilutions should be determined by end user.

Formulation

Lyophilized from 1.2% sodium acetate, with 2mg BSA and 0.01mg NaN_3 as preservative.

Reconstitution

1.2% sodium acetate or neutral PBS. If 1ml of PBS is used, the antibody concentration will be 100µg/ml.

To reorder contact us at:

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Storage

At -20˚C for one year. After reconstitution, at 4˚C for one month. It can also be aliquotted and stored frozen at -20˚C for longer time.

BACKGROUND

The heat-shock proteins (HSPs) belong to a larger group of polypeptides, the stress proteins, that are induced in various combinations in response to environmental challenges and developmental transitions. Heat-shock 27-kD protein1also knows as HSPB. Synthesis of the small (27-kD) HSP has been shown to be correlated with the acquisition of thermotolerance. HSP27 gene is mapped to 7q11.23. Mutant small heat-shock protein 27 causes axonal Charcot-Marie-Tooth disease and distal hereditary motor neuropathy. Heat shock protein 27 prevents cellular polyglutamine toxicity and suppresses the increase of reactive oxygen species caused by huntingtin.

REFERENCE

1. Evgrafov, O. V.; Mersiyanova, I.; Irobi, J.; Van Den Bosch, L.; Dierick, I.; Leung, C. L.; Schagina, O.; Verpoorten, N.; Van Impe, K.; Fedotov, V.; Dadali, E.; Auer-Grumbach, M.; and 14 others : Mutant small heat-shock protein 27 causes axonal Charcot-Marie-Tooth disease and distal hereditary motor neuropathy. *Nature Genet.* 36: 602-606, 2004.

2 Wyttenbach, A.; Sauvageot, O.; Carmichael, J.; Diaz-Latoud, C.; Arrigo, A.-P.; Rubinsztein,D.C. :Heat shock protein 27 prevents cellular polyglutamine toxicity and suppresses the increase of reactive oxygen species caused by huntingtin. *Hum. Molec. Genet.* 11: 1137-1151, 2002.