

Ant-Grp75 (Mortalin) Monoclonal Antibody

ORDERING INFORMATION

Catalog No.	Size
11121	100ug

Format: 100ug (1mg/ml) Protein G-purified antibody in PBS, pH 7.2, 50% glycerol, 0.09% sodium azide.

BACKGROUND

Grp75, also known as mortalin, is a member of the Hsp70 family of chaperone proteins that is not heat-inducible but is induced under conditions of low glucose and other nutritional and environmental stresses. Grp75 is localized primarily in the mitochondrial matrix where it collaborates with Hsp60 in the re-folding of proteins. Related forms may also be found in the cytosol or on the cell surface. Other Grp75 functions include its ability to inactivate the tumor suppressor p53; it is over-expressed in many tumor cells and immortalized cell lines which suggest its role in tumor formation. Grp75 is also implicated in cell aging as its overexpression appears to prolong the life span of human fibroblasts. Lastly, like the *E. coli* homolog DnaK, Grp75 has a cation-dependent ATPase activity considered central to its function as a chaperone.

SPECIFICATION SUMMARY

Antigen: Fusion protein corresponding to aa 551-766 of mouse SALM2. **NOTE:** Product #11121 was identified as an off-target MAb during development of anti-SALM2 MAbs. The target of product #11121 was identified as Mortalin/GRP75 by LC-MS/MS analysis of protein immunopurified from rat brain.

Accession no. NP_004125.3 **Gene ID** 3313 **SwissProt** P38646

Host Species: Mouse

Clone no.: S52A-42

Antibody subtype: IgG1

Specificity: This antibody recognizes a ~75kDa protein corresponding to the predicted molecular mass of Grp75 on SDS-PAGE immunoblots of human, mouse, and rat.

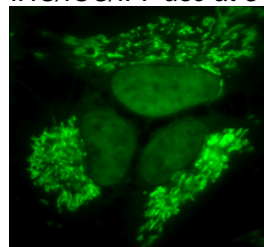
APPLICATIONS

Immunoblotting: use at 1-5ug/ml. A band of ~75kDa is detected.



Detection of Grp75 in HeLa cell lysate with #11121 at 1ug/ml.

IHC/ICC/IF: use at 5-10ug/ml.



Detection of Grp75 in heat-shocked HeLa cells with #11121 at 5ug/ml.

These are recommended concentrations. Endusers should determine optimal concentrations for their applications.

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DILUTION INSTRUCTIONS

Dilute in PBS or medium that is identical to that used in the assay system.

STORAGE AND STABILITY

This antibody is stable for at least one (1) year at -20°C.

For in vitro investigational use only. Not for use in therapeutic or diagnostic procedures.