



OXFORD BIOMEDICAL RESEARCH

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Glucose Regulated Protein (Grp) 75 Standard

Product # GR 01

Typical Lot

Background: Grp 75 (glucose regulated protein, 75 kDa) is generally recognized as a mitochondrial matrix protein belonging to the Hsp 70 (heat shock protein, 70 kDa) class of proteins. Grp 75 is induced under conditions of low glucose as well as other nutritional and environmental stresses. Grp 75 is involved in mitochondrial protein processing, antigen recognition and cell proliferation.

Contents: HT 1080 human fibrosarcoma cytoplasmic lysate. This preparation serves as the Grp 75 positive control and produces a readily visible band of Grp 75 when using chemiluminescent detection on Western blots.

Application: Western blot analysis, 30 μ L per lane.

Quantity: 300 μ L – Sufficient for at least 10 Western blots.

Storage: Stable for several weeks at 4°C, several months at -20 °C, and indefinitely at -70 °C. Avoid repeated freeze/thaw cycles.

References:

1. Wadhwa, R., Kaul, S.C., Mitsui, Y., *Cell Struct. Function*, **19** : 1-10 (1994)
2. Kim, H.T., Nelson, Clayberger, Sanjanwala, M., Sklar, J., Krensky, A.M., *J. Immunol.*, **154** : 1614-1623 (1995)



3. Mizzen, L.A., Chang, C., Garrels, J.I., Welch, W.J., *Biol Chem.*, **264** : 20664-20675 (1989)
4. Webster, T.J., Naylor, D.J., Hartman, D.J., Hoj, P.B., Hoogenraad, N.J., *DNA and Cell Biol.*, **13** : 1213-1220 (1994)