GRP170 Monoclonal Antibody

ORDERING INFORMATION

Catalog No.: 11149 (clone 6G7-2H5)

Format: 100ug in PBS (1mg/ml), pH 7.4, 0.1% sodium azide, 50% glycerol. Purified by Protein G affinity chromatography.

BACKGROUND

Grp170 is a major chaperone/stress protein resident in the ER. It is distantly related in sequence to both hsp110 and hsp70 families, but represents the Grp170 stress protein family. Studies have suggested that Grp170 is an important element of the protein processing machinery of the ER. Unlike Hsp110 and Hsp70, Grp170 has two distinct chaperoning domains; a classic β-sheet peptide binding domain, with some COOH-terminal sequence, and a COOH-terminal α-helical domain. Like other members of the Hsp70 superfamily, Grp170 can elicit anti-tumor immune responses most likely by chaperoning antigenic peptide and binding to receptor(s) on antigen-presenting cells (APC).

SPECIFICATION SUMMARY

Antigen: Synthetic peptide sequence derived from human Grp170 (accession no. NP_006389.3)

Host Species: Mouse

Antibody Class: IgG2b

Specificity: This antibody recognizes human Grp170 (170kDa).

APPLICATIONS

ELISA: confirmed with antibody (1-10ug/ml) binding to Grp170 at 5ug/ml on the solid phase.

Immunoblotting: confirmed with antibody at 1.0-2.0ug/ml. A band of 170kDa is detected.

These are recommended concentrations; enduser should determine optimal concentrations for their applications.

Positive control: HEK293 cell lysate.

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. Avoid repeated freeze-thaw cycles.

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

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