



PRODUCT DATA SHEET

Product: Anti-HDJ-2 (DNAJ) mAb, clone KA2A5.6

Cat. No.: MC-667 (100 µg)

Description:

It is a novel human homolog of E. coli's DNAJ protein from heat shock protein 40 family. Hsp40 is involved in chaperonic protein folding HDJ-2 is cytoplasmic and nuclear membrane associated protein; upon heat shock it migrates and becomes associated with the Golgi complex, nucleolus and nuclear membrane HDJ-2 has a prenylated C-terminus and is not inducible upon heat shock.

Specificity:

Clone KA2A5.6 recognizes a 44-47 kDa protein identified as HDJ-2. This antibody is highly specific to HDJ-2 and shows no cross-reaction with HDJ-1. It associates with a 53kDa protein of unknown identity.

Positive Control:

Raji, MAD109 and Tonsil.

Species Reactivity:

Human, monkey, pig, rabbit, mouse, rat, hamster and bacteria (*E. coli*). Others not tested.

Ig Isotype:

Mouse IgG₁

Immunogen:

purified recombinant N-terminal fragment, aa 1-179, of the human HDJ-2 fusion protein.

Cellular Localization:

Cytoplasm (ground state) and Golgi complex, nucleolus, and nuclear membrane (upon heat shock).

Epitope:

aa 1-179

Format:

Monoclonal antibody against HDJ-2. This antibody is at 200 µg/mL in 10 mM PBS, pH 7.4, with protein stabilizer and 0.09% sodium azide. Purified from ascites fluid by Protein G chromatography.

Storage:

Store at 4 °C.

Applications and Suggested Dilutions:

- Flow cytometry
- Immunofluorescence
- Immunoprecipitation: Use Protein G. Use Ab at 2 µg/mg protein lysate. Native and denatured.
- Immunohistochemistry: Formalin/paraffin fixed- Use the Ab at 1-2 µg/mL for 30 min. at room temp. The staining of formalin/paraffin tissues is enhanced by boiling tissue sections in 10 mM citrate buffer, pH 6.0, for 10-20 min. followed by cooling at RT for 20 min.
- Western blot: Use Ab at 0.5-1 µg/mL for 2 hrs. at RT

The optimal dilution for a specific application should be determined by the researcher.

Limitations:

For *in vitro* research use only. Not for use in diagnostics or in humans.

Warranty:

No warranties, expressed or implied, are made regarding the use of this product. KAMIYA BIOMEDICAL COMPANY is not liable for any damage, personal injury, or economic loss caused by this product.