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HSP60 (D6F1) XP[®] Rabbit mAb (PE Conjugate)

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
FC-FP	H M R Hm Mk X Z B Pg	Endogenous	Rabbit IgG	#P10809	3329

Product Usage Information

Application

Flow Cytometry (Fixed/Permeabilized)

Dilution

1:50

Storage

Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. Do not aliquot the antibody. Protect from light. Do not freeze.

Specificity/Sensitivity

HSP60 (D6F1) XP[®] Rabbit mAb (PE Conjugate) recognizes endogenous levels of total HSP60 protein.

Species predicted to react based on 100% sequence homology

Chicken, Dog, Horse

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Trp68 of human HSP60 protein.

Description

This Cell Signaling Technology antibody is conjugated to phycoerythrin (PE) and tested in-house for direct flow cytometry analysis in human cells. This antibody is expected to exhibit the same species cross-reactivity as the unconjugated HSP60 (D6F1) XP[®] Rabbit mAb #12165.

Background

In both prokaryotic and eukaryotic cells the misfolding and aggregation of proteins during biogenesis and under conditions of cellular stress are prevented by molecular chaperones (1-3). HSP60 has primarily been known as a mitochondrial protein that is important for folding key proteins after import into the mitochondria (4). Research studies have shown that a significant amount of HSP60 is also present in the cytosol of many cells, and that it is induced by stress, inflammatory and immune responses, and autoantibodies correlated with Alzheimer's, coronary artery diseases, MS, and diabetes (5-8).

Background References

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- Bukau, B. and Horwich, A.L. (1998) *Cell* 92, 351-366.
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- Jindal, S. et al. (1989) *Mol. Cell Biol.* 9, 2279-2283.
- Itoh, H. et al. (2002) *Eur. J. Biochem.* 269, 5931-5938.
- Gupta, S. and Knowlton, A.A. *J. Cell Mol. Med.* 9, 51-58.
- Deocaris, C.C. et al. (2006) *Cell Stress Chaperones* 11, 116-128.
- Lai, H.C. et al. (2007) *Am. J. Physiol. Endocrinol. Metab.* 292, E292-E297.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Applications Key

FC-FP: Flow Cytometry (Fixed/Permeabilized)

Cross-Reactivity Key

H: Human **M:** Mouse **R:** Rat **Hm:** Hamster **Mk:** Monkey **X:** Xenopus **Z:** Zebrafish **B:** Bovine **Pg:** Pig

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