

**HSP60 (D6F1) XP<sup>®</sup> Rabbit mAb (HRP Conjugate)**

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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	H M R Hm Mk X Z B Pg	Endogenous	60	Rabbit IgG	#P10809	3329

**Product Usage Information****Application**

Western Blotting

**Dilution**

1:1000

**Storage**

Supplied in 136 mM NaCl, 2.6 mM KCl, 12 mM sodium phosphate (pH 7.4) dibasic, 2 mg/ml BSA, and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

**Specificity/Sensitivity**

HSP60 (D6F1) XP<sup>®</sup> Rabbit mAb (HRP 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 the carbohydrate groups of horseradish peroxidase (HRP) via its amine groups. The HRP conjugated antibody is expected to exhibit the same species cross-reactivity as the unconjugated HSP60 (D6F1) XP<sup>®</sup> 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**

- Hartl, F.U. (1996) *Nature* 381, 571-579.
- Bukau, B. and Horwich, A.L. (1998) *Cell* 92, 351-366.
- Hartl, F.U. and Hayer-Hartl, M. (2002) *Science* 295, 1852-1858.
- 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).

**Western Blot Buffer**

**IMPORTANT:** For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

**Applications Key**

**W:** Western Blotting

**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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