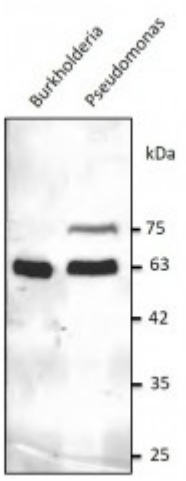
Anti-GroEL antibody



Description	Goat polyclonal antibody to GroEL. GroEL protein is a 60 kDa chaperone that promotes refolding of misfolded polypeptides especially under stressful conditions.

Model	STJ140039
Host	Goat
Reactivity	Burkholderia, Other, Pseudomonas
Applications	WB
Immunogen	Purified recombinant peptide derived from within residues 400 aa to the C-terminus of Burkholderia GroEL produced in E. coli.
Immunogen Region	C-Term
Gene Symbol	HSPD1
Dilution range	Western blot 1:500-1:5,000 Immunofluorescence ND Immunohistochemistry (paraffin) ND Immunohistochemistry (frozen) ND
Specificity	The Ab recognizes the endogenous protein in Burkholderia and Pseudomonas by Western blot.
Purification	This antibody is epitope-affinity purified from goat antiserum.
Note	For research use only (RUO).
Protein Name	60 kDa heat shock protein, mitochondrial 60 kDa chaperonin Chaperonin 60 CPN60 Heat shock protein 60 HSP-60 Hsp60 HuCHA60 Mitochondrial matrix protein P1 P60 lymphocyte protein
Molecular Weight	1 kDa

Clonality	Polyclonal
Conjugation	Unconjugated
Isotype	IgG
Formulation	PBS, 20% glycerol and 0.05% sodium azide.
Concentration	2 mg/mL
Storage Instruction	Store at -20°, and avoid repeated freeze-thaw cycles.
Alternative Names	60 kDa heat shock protein, mitochondrial 60 kDa chaperonin Chaperonin 60 CPN60 Heat shock protein 60 HSP-60 Hsp60 HuCHA60 Mitochondrial matrix protein P1 P60 lymphocyte protein
Function	Chaperonin implicated in mitochondrial protein import and macromolecular assembly. Together with Hsp10, facilitates the correct folding of imported proteins. May also prevent misfolding and promote the refolding and proper assembly of unfolded polypeptides generated under stress conditions in the mitochondrial matrix (PubMed:1346131, PubMed:11422376). The functional units of these chaperonins consist of heptameric rings of the large subunit Hsp60, which function as a back-to-back double ring. In a cyclic reaction, Hsp60 ring complexes bind one unfolded substrate protein per ring, followed by the binding of ATP and association with 2 heptameric rings of the co-chaperonin Hsp10. This leads to sequestration of the substrate protein in the inner cavity of Hsp60 where, for a certain period of time, it can fold undisturbed by other cell components. Synchronous hydrolysis of ATP in all Hsp60 subunits results in the dissociation of the chaperonin rings and the release of ADP and the folded substrate protein (Probable)
Cellular Localization	Mithocondria