

## HSP60 protein

<b>Catalog No :</b>	YD0044
<b>Reactivity :</b>	Human
<b>Applications :</b>	WB;SDS-PAGE
<b>Gene Name :</b>	HSPD1
<b>Protein Name :</b>	HSP60 protein
<b>Sequence :</b>	Amino acid: 305-426, with his-MBP tag.
<b>Human Gene Id :</b>	3329
<b>Human Swiss Prot No :</b>	P10809
<b>Mouse Swiss Prot No :</b>	P63038
<b>Formulation :</b>	Liquid in PBS
<b>Source :</b>	E.coli
<b>Dilution :</b>	WB 1:500-2000
<b>Concentration :</b>	SDS-PAGE >90%
<b>Storage Stability :</b>	-20 °C/6 month, -80 °C for long storage
<b>Background :</b>	<p>disease:Defects in HSPD1 are a cause of spastic paraplegia autosomal dominant type 13 (SPG13) [MIM:605280]. Spastic paraplegia is a degenerative spinal cord disorder characterized by a slow, gradual, progressive weakness and spasticity of the lower limbs.,disease:Defects in HSPD1 are the cause of leukodystrophy hypomyelinating type 4 (HLD4) [MIM:612233]; also called mitochondrial HSP60 chaperonopathy or MitCHAP-60 disease. HLD4 is a severe autosomal recessive hypomyelinating leukodystrophy. Clinically characterized by infantile-onset rotary nystagmus, progressive spastic paraplegia, neurologic regression, motor impairment, profound mental retardation. Death usually occurs within the first 2 decades of life.,function:Implicated in mitochondrial protein import and macromolecular assembly. May facilitate the correct folding of</p>

imported proteins. May also prevent misfolding and promote the refolding and proper assembly of unfolded polypeptides generated under stress conditions in the mitochondrial matrix.,similarity:Belongs to the chaperonin (HSP60) family.,similarity:Belongs to the TCP-1 chaperonin family.,subunit:Interacts with HBV protein X and HTLV-1 protein p40tax.,

### Function :

cell activation, cytokine production, regulation of cytokine production, positive regulation of cytokine production,somatic diversification of immune receptors, somatic recombination of immunoglobulin genes during immune response,somatic diversification of immunoglobulins during immune response, activation of innate immune response, pattern recognition receptor signaling pathway, toll-like receptor signaling pathway, adaptive immune response, immune effector process, activation of immune response, cytokine production during immune response, B cell cytokine production, immunoglobulin production, immunoglobulin production during immune response, production of molecular mediator of immune response, leukocyte mediated immunity, lymphocyte mediated immunity, adaptive immune response based on somatic recombination of immune receptors built from immunoglobulin superfamily domains,immune system

### Subcellular Location :

Mitochondrion matrix.

## Products Images

