



Rabbit Anti-HSP60 antibody

SL0191R

Product Name:	HSP60
Chinese Name:	热休克蛋白-60/groEL抗体
Alias:	HSP 60; HSP-60; 60 kDa chaperonin;60 kDa heat shock protein mitochondrial; 60kDa; cb863; Chaperonin 60; Chaperonin;Chaperonin, 60-KD; CPN 60; CPN60; fa04a05; fb22d10;fi27b05; GROEL; GroEL Homolog; GroEL, E. coli, homolog of; Heat shock 60kD protein 1 (chaperonin); Heat shock 60kD protein 1 chaperonin; heat shock 60kDa protein 1 (chaperonin); Heat Shock Protein 60; Heat shock protein 65; HLD4;Hsp 60;HSP 65; HSP65; HSPD 1; HSPD1; HuCHA60; id:ibd2197; Mitochondrial matrix protein P1; P60 lymphocyte protein; sb:cb144; Short heat shock protein 60 Hsp60s1; 60 kDa heat shock protein, mitochondrial; 60 kDa chaperonin; Chaperonin 60; CPN60; Heat shock protein 60; HuCHA60; Mitochondrial matrix protein P1; P60 lymphocyte protein; CH60 HUMAN.
文献引用 PubMed :	<p>Specific References(2) SL0191R has been referenced in 2 publications.</p> <p>[IF=2.70]Kengkoom, Kanchana, and Sumate Ampawong. "Chronic Ingestion of High Dosed Phikud Navakot Extraction Induces Mesangiolysis in Rats with Alteration of AQP1 and Hsp60 Expressions." BioMed Research International 2015 (2015).IHC-P;Rat. PubMed:25815318</p> <p>[IF=1.28]Isarangkul, Duangnate, et al. "Mitochondrial and cytoskeletal alterations are involved in the pathogenesis of hydronephrosis in ICR/Mlac-hydro mice." International Journal of Clinical and Experimental Medicine 8.6 (2015): 9192-9204.IHC-P;Mouse. PubMed:26309577</p>
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Cow,Horse,Rabbit,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair)

	not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	58kDa
Cellular localization:	cytoplasmic Mitochondrion
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human HSP60:501-573/573
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	<p>This gene encodes a member of the chaperonin family. The encoded mitochondrial protein may function as a signaling molecule in the innate immune system. This protein is essential for the folding and assembly of newly imported proteins in the mitochondria. This gene is adjacent to a related family member and the region between the 2 genes functions as a bidirectional promoter. Two pseudogenes, both located on chromosome 8, have been associated with this gene. Two transcript variants encoding the same protein have been identified for this gene. Mutations associated with this gene cause autosomal recessive spastic paraplegia 13.</p> <p>Function: Implicated in mitochondrial protein import and macromolecular assembly. May facilitate 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.</p> <p>Subunit: Interacts with HRAS (By similarity). Interacts with HBV protein X and HTLV-1 protein p40tax. Interacts with ATAD3A.</p> <p>Subcellular Location: Mitochondrion matrix.</p> <p>DISEASE: Spastic paraplegia autosomal dominant 13 (SPG13) [MIM:605280]: A form of spastic paraplegia, a neurodegenerative disorder characterized by a slow, gradual, progressive weakness and spasticity of the lower limbs. Rate of progression and the severity of symptoms are quite variable. Initial symptoms may include difficulty with balance, weakness and stiffness in the legs, muscle spasms, and dragging the toes when walking. In some forms of the disorder, bladder symptoms (such as incontinence) may appear, or the weakness and stiffness may spread to other parts of the body. Note=The disease is caused by mutations affecting the gene represented in this entry.</p>

Leukodystrophy, hypomyelinating, 4 (HLD4) [MIM:612233]: 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 two decades of life. Note=The disease is caused by mutations affecting the gene represented in this entry.

Similarity:

Belongs to the chaperonin (HSP60) family.

SWISS:

P10809

Gene ID:

3329

Database links:

[Entrez Gene: 3329](#)Human

[Entrez Gene: 15510](#)Mouse

[Entrez Gene: 63868](#)Rat

[Omim: 118190](#)Human

[SwissProt: P86206](#)Hamster

[SwissProt: P10809](#)Human

[SwissProt: P63038](#)Mouse

[SwissProt: P63039](#)Rat

[Unigene: 595053](#)Human

[Unigene: 727543](#)Human

[Unigene: 1777](#)Mouse

[Unigene: 102058](#)Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

信号传导 (Signaling Intermediates)

HSP60是一类进化上高度保守的蛋白质家族.生理状态时协助多肽或蛋白质的正确转位、折叠和装配,起"分子伴侣"的作用;在应激状态下,HSP60过表达或异位表达,作

为一种自身抗原被免疫系统识别,诱发机体的保护性免疫应答,也可作为一种信号分子,在Signal transduction中发挥作用。

该蛋白与Tumour的发生、增殖及分化有关,主要用于舌鳞癌、结肠癌、胰腺癌和乳腺癌的研究,近年来研究证实HSP60在自身免疫性疾病、传染病、动脉粥样硬化及慢性感染的发病中均发挥重要的作用。

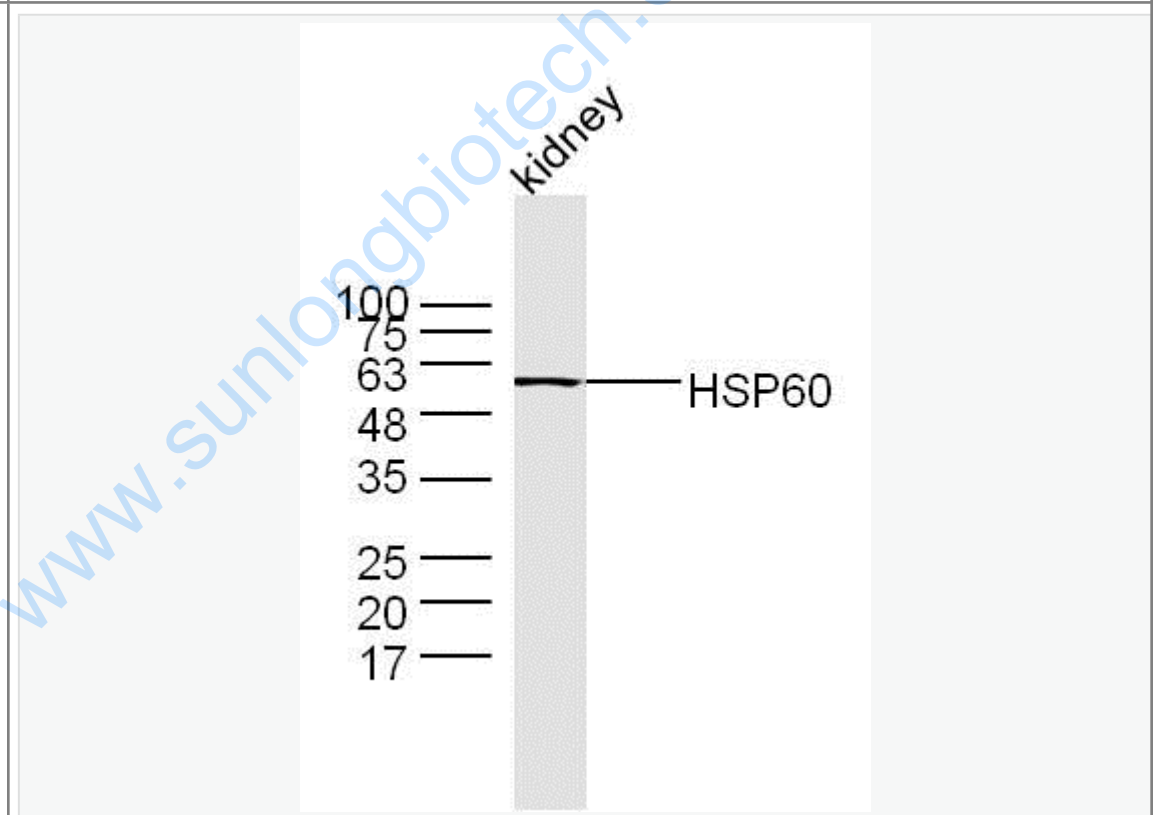
HSP-60热休克蛋白-蛋白质折叠过程的引导因子

分子伴侣是一种引导蛋白质正确折叠的蛋白质。当蛋白质折叠时,它们能保护蛋白质分子免受其它蛋白质的干扰。很多分子伴侣属于热休克蛋白(例如HSP-60),它们在细胞受热时大量合成。热激可导致蛋白质稳定性降低,增加错误折叠的几率,因此在受到热刺激时,细胞中的蛋白质需要更多热休克蛋白的帮助。

HSP-

60是一种典型的分子伴侣,它可以为正在折叠的蛋白质提供一个附着环境,从而起到保护折叠过程的作用。

Picture:



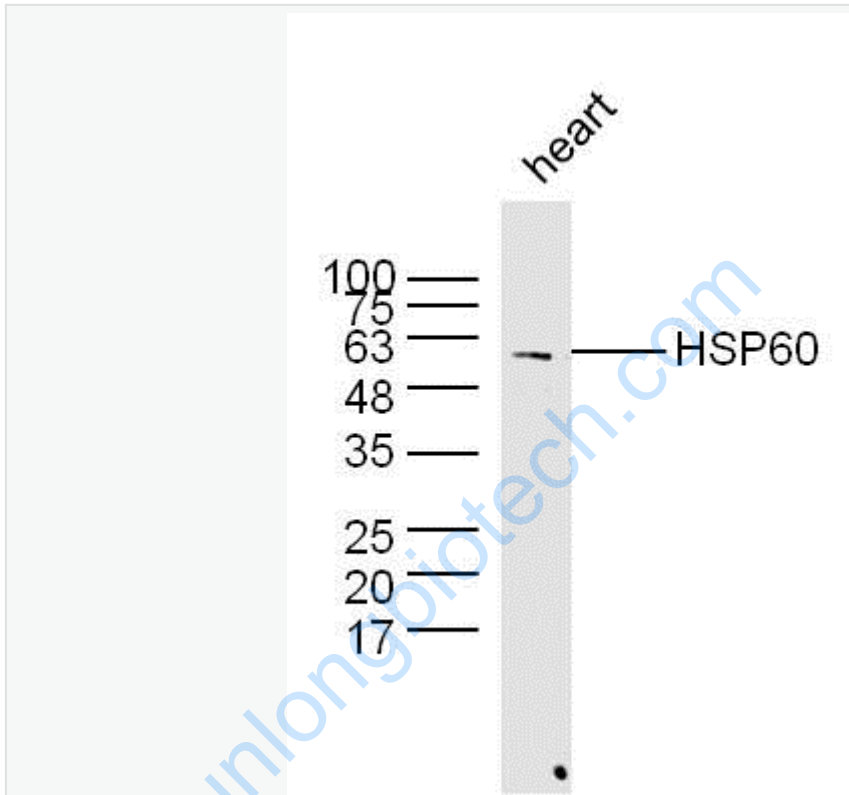
Sample: Kidney (Mouse) Lysate at 30 ug

Primary: Anti- HSP60 (SL0191R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 58 kD

Observed band size: 58 kD



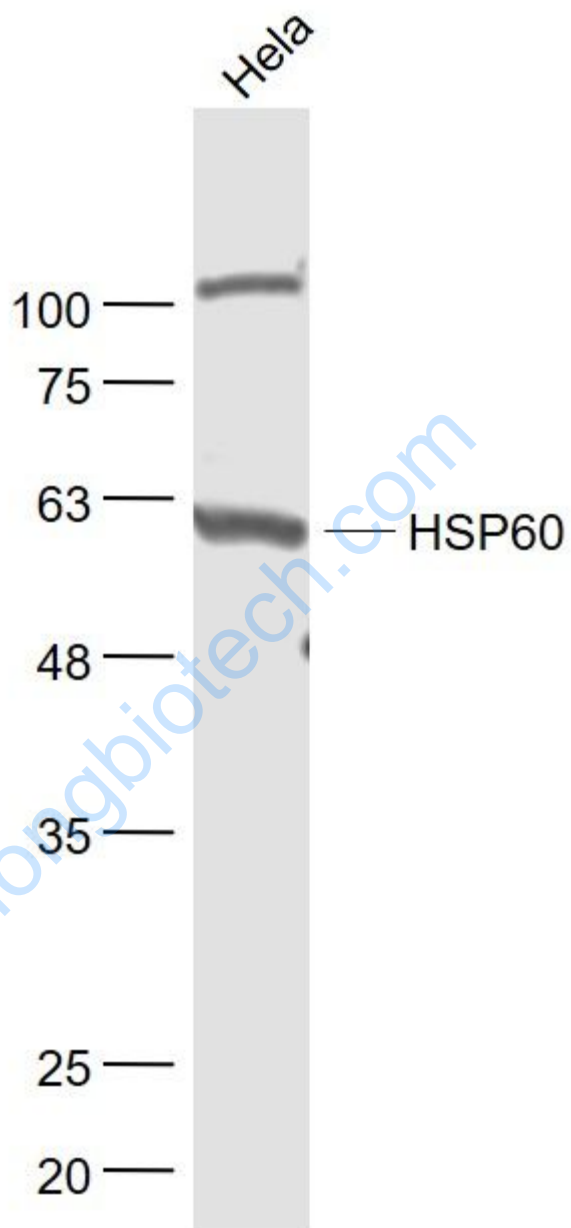
Sample: Heart (Mouse) Lysate at 30 ug

Primary: Anti-HSP60 (SL0191R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 58 kD

Observed band size: 58 kD



Sample:

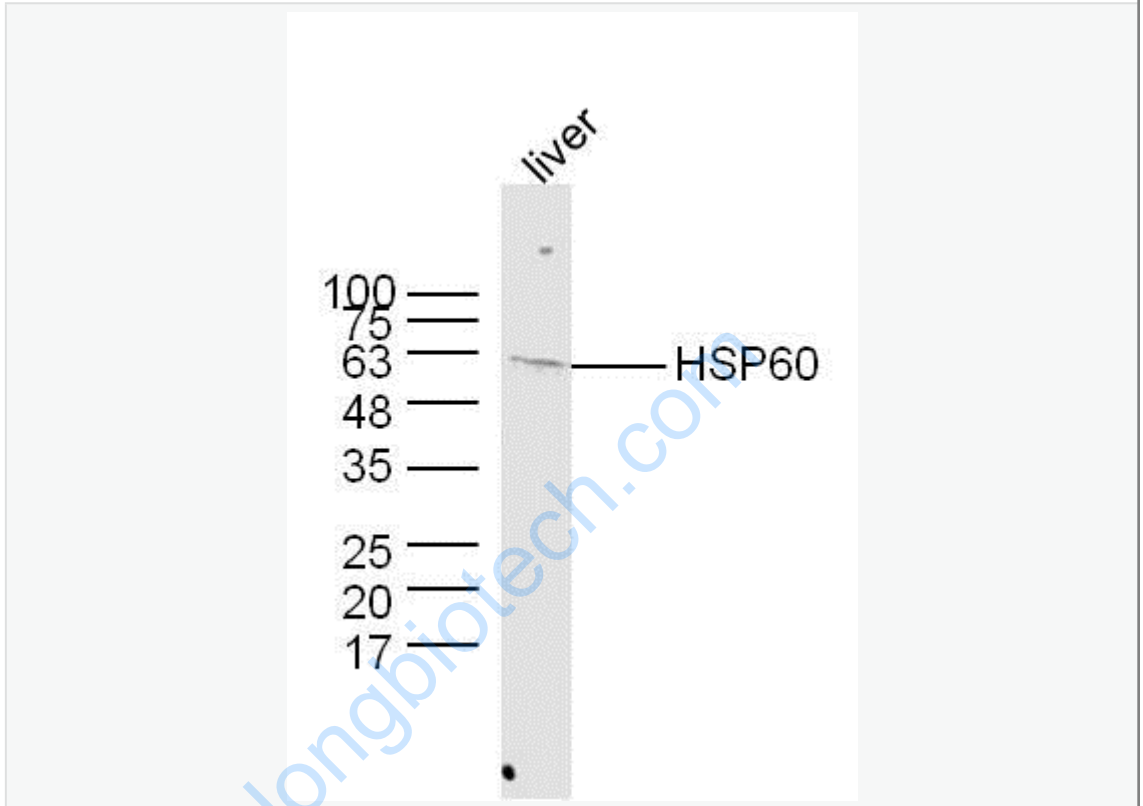
HeLa(Human) Cell Lysate at 30 ug

Primary: Anti- HSP60 (SL0191R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 58 kD

Observed band size: 58 kD



Sample:

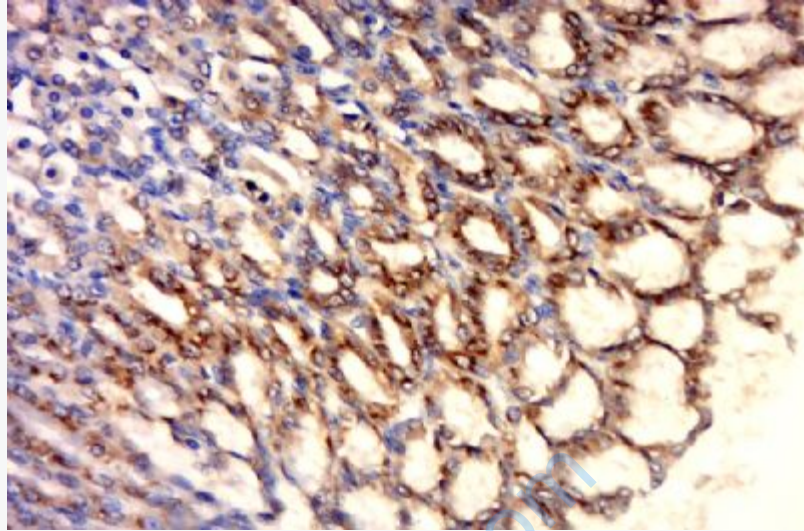
Liver (Mouse) Lysate at 40 ug

Primary: Anti-HSP60 (SL0191R) at 1/300 dilution

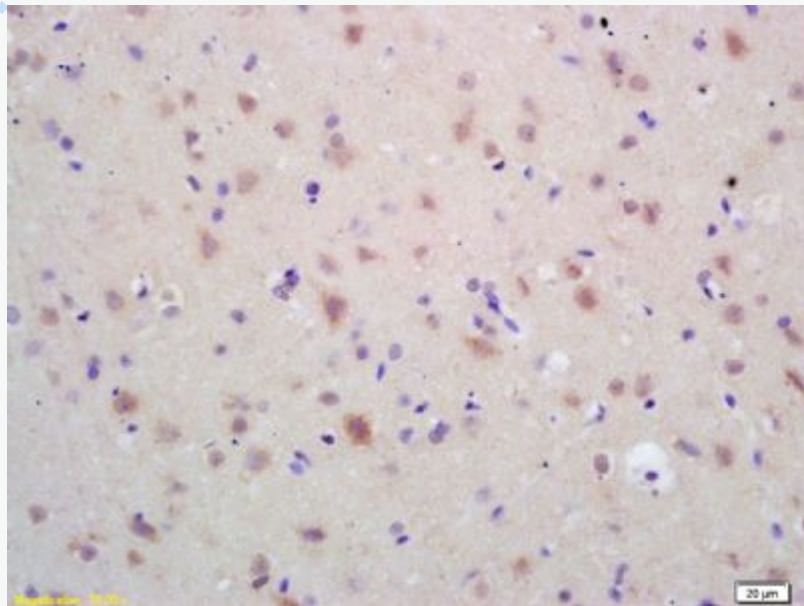
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 58 kD

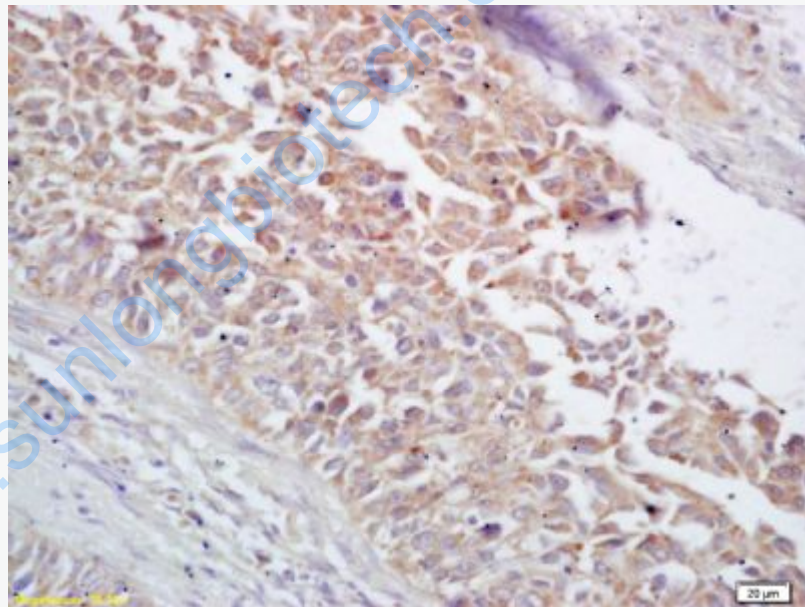
Observed band size: 58 kD



Paraformaldehyde-fixed, paraffin embedded (rat stomach); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (HSP60) Polyclonal Antibody, Unconjugated (SL0191R) at 1:500 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.



Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;
Incubation: Anti-HSP60 Polyclonal Antibody, Unconjugated(SL0191R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Tissue/cell: human lung carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;
Incubation: Anti-HSP60 Polyclonal Antibody, Unconjugated(SL0191R) 1:200,

	overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining
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