

Anti-DnaK antibody ab80161

[3 References](#) [画像数 1](#)

製品の概要

製品名	Anti-DnaK antibody
製品の詳細	Rabbit polyclonal to DnaK
由来種	Rabbit
アプリケーション	適用あり: WB
種交差性	交差種: Chlamydomonas reinhardtii
免疫原	Recombinant full length DnaK of Chlamydomonas reinhardtii
ポジティブ・コントロール	WB: Arabidopsis thaliana leaf extract.
特記事項	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
バッファー	Constituent: Whole serum
精製度	Whole antiserum
ポリ/モノ	ポリクローナル
アイソタイプ	IgG

アプリケーション

The Abpromise guarantee Abpromise保証は、次のテスト済みアプリケーションにおけるab80161の使用に適用されます
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
WB		1/5000. Detects a band of approximately 70 kDa.

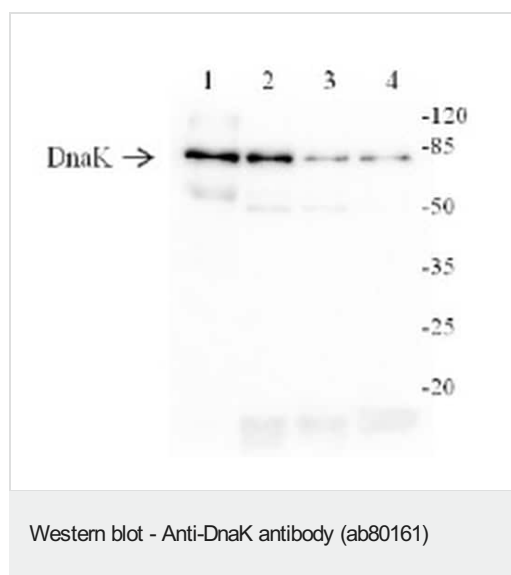
ターゲット情報

関連性

DnaK is the prokaryotic analogue of eukaryotic Hsp70. Heat shock proteins applies to a group of proteins that assist in the assembly, folding, and translocation of other proteins. In addition, they protect the cell against heat injury or other forms of stress. All cells, prokaryotic and eukaryotic, are able to respond to different cellular stresses by synthesizing these proteins. Heat shock proteins are highly conserved, ubiquitously distributed, and involved in important aspects of viral and bacterial infections, autoimmune diseases, and in cancer immunity. Two families of molecular chaperones have been identified. The members of the Hsp70 family (DnaK/DnaJ/GrpE) bind to the growing polypeptide chain and prevent its premature folding. The chaperonin family (GroEL and GroES) assists in correct folding when the complete polypeptide chain is formed and is transported into the cytosol or mitochondria. All the major heat shock proteins help to suppress irreversible unfolding reactions. These protein folding 'assistants' may have important functions in amyloid diseases where incorrectly folded proteins accumulate as folded aggregates.

細胞内局在 Cytoplasm. Cell inner membrane; Peripheral membrane protein.

画像



Lane 1. 15 µg of Arabidopsis thaliana leaf extract.

Lane 2. 10 µg of total protein from: Synechocystis 6803 motile.

Lane 3. Synechocystis 6803 GT (glucose tolerant strain).

Lane 4. Synechococcus elongates 7942.

Marker – Pierce™ Pre-stained Protein MW Marker (kat #26612)

Total protein was extracted with following buffer: 10 mM Tris HCl, pH 8.0, 0.5% LDS, 4% glycerol, 0.1 mM EDTA were mixed with sample buffer and denatured for 5 min at 95°C. Samples were separated on 10% SDS -PAGE and blotted for 1h to nitrocellulose membrane (Amersham Protran) using tank wet transfer (Bio-Rad) in standard transfer buffer in the presence of 20% methanol. Transfer of proteins to the membrane was checked using 0.5% Ponceau S staining before the blocking step. Blots were blocked in buffer (2% low-fat milk in 1xPBS, 0.1% Tween) for 1 h at room temperature (RT) with agitation. Blots were incubated with the primary antibody (ab80161) at a dilution of 1/5000 for 1h at RT with agitation. The antibody solution was decanted and the blot was rinsed briefly twice, then washed once for 15 min and 3 times for 5 min in PBS-T at RT with agitation. The blot was incubated in secondary antibody goat anti-rabbit IgG, diluted to 1/30000 for 1h at RT with agitation. The blot was washed as above and developed for 5 min with Clarity

Western ECL Substrate and ChemiDoc detection system (Bio-Rad).

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