Datasheet for ABIN7602897

anti-HSPA6 antibody (C-Term)

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Overview

Quantity:	100 µg
Target:	HSPA6
Binding Specificity:	C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This HSPA6 antibody is un-conjugated
Application:	Western Blotting (WB), Flow Cytometry (FACS)

Product Details

Purpose:	Anti-HSPA6 Antibody Picoband®
Immunogen:	A synthetic peptide corresponding to a sequence at the C-terminus of human HSPA6, which shares 81.2% amino acid (aa) sequence identity with mouse and rat HSPA6.
Characteristics:	Anti-HSPA6 Antibody Picoband® (ABIN7602897). Tested in WB, Flow Cytometry applications. This antibody reacts with Human. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	HSPA6
Alternative Name:	HSPA6 (HSPA6 Products)
Background:	Heat shock 70 kDa protein 6 is a protein that in humans is encoded by the HSPA6 gene. The HSPA6 gene, also known as heat shock 70 kDa protein 6, encodes a member of the heat shock protein 70 (HSP70) family, which functions as molecular chaperones involved in protein folding, unfolding, and transport under stress conditions. HSPA6 is induced in response to cellular stressors such as heat shock, oxidative stress, and exposure to toxic agents, where it assists in protein refolding and prevents protein aggregation, thus promoting cell survival. While HSPA6 shares significant sequence homology with other HSP70 family members, it exhibits distinct expression patterns and functional properties in different tissues and cellular contexts. Its role in various physiological processes and diseases, including neurodegenerative disorders, cancer, and cardiovascular diseases, is under investigation. Understanding the molecular mechanisms underlying HSPA6 function is crucial for elucidating its role in cellular stress responses and its potential as a therapeutic target for stress-related diseases.
Molecular Weight:	71 kDa
Gene ID:	3310
UniProt:	P17066

Application Details

Application Notes:	Western blot, 0.25-0.5 µg/mL, Human Flow Cytometry (Fixed), 1-3 µg/1x10^6 cells, Human 1. Brzustowicz, L. M., Hayter, J. E., Hodgkinson, K. A., Chow, E. W. C., Bassett, A. S. Fine mapping of the schizophrenia susceptibility locus on chromosome 1q22. Hum. Hered. 54: 199-209, 2002. 2. Grosz, M. D., Womack, J. E., Skow, L. C. Syntenic conservation of HSP70 genes in cattle and humans. Genomics 14: 863-868, 1992. 3. Leung, T. K. C., Hall, C., Rajendran, M., Spurr, N. K., Lim, L. The human heat-shock genes HSPA6 and HSPA7 are both expressed and localize to chromosome 1. Genomics 12: 74-79, 1992.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Adding 0.2 mL of distilled water will yield a concentration of 500 µg/mL.

Handling

Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Storage:	4 °C,-20 °C
Storage Comment:	At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing.