

#### DESCRIPTION

<b>Species Reactivity</b>	Human/Mouse/Rat
<b>Specificity</b>	Detects human, mouse and rat HSPA8 in Western blots.
<b>Source</b>	Monoclonal Mouse IgG <sub>3</sub> Clone # 521503
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human HSPA8 Asp534-Gly615 Accession # P11142
<b>Conjugate</b>	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
<b>Formulation</b>	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide  *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

#### APPLICATIONS

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

<b>Western Blot</b>	Optimal dilution of this antibody should be experimentally determined.
<b>Immunocytochemistry</b>	Optimal dilution of this antibody should be experimentally determined.
<b>Immunohistochemistry</b>	Optimal dilution of this antibody should be experimentally determined.

#### PREPARATION AND STORAGE

<b>Shipping</b>	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
<b>Stability &amp; Storage</b>	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

#### BACKGROUND

The 70 kDa heat shock proteins (HSP70s) are a highly conserved family of stress response proteins. The HSP70 family of proteins contains both heat/stress inducible and constitutively expressed members known as heat shock cognate proteins. Heat Shock 70 kDa Protein 8 (HSPA8), also known as Heat Shock Cognate Protein 71 (HSC71), HSC70, HSP73, HSPA10 and LPS-associated protein 1 (LAP1), is a 646 amino acid (aa) heat shock cognate protein. Many HSPs function as molecular chaperones, facilitating the folding of other cellular proteins. HSPA8 plays an important role in cells by transiently associating with nascent polypeptides to facilitate correct folding. HSPA8 is a ubiquitously expressed protein and rapidly translocates from the cytoplasm to the nucleus in response to heat shock. Two alternatively spliced variants have been identified. This antibody detects isoform 1 but not isoform 2 (HSC54). Human HSPA8 shares greater than 99% identity with mouse and rat HSPA8.

#### PRODUCT SPECIFIC NOTICES

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