

## Product datasheet for **TA326546**

### Hspa5 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Recommended Dilution:	WB: 1:1000
Reactivity:	Human (weak), Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	His-tagged rat GRP78
Formulation:	PBS pH7.4, 50% glycerol and 0.09% sodium azide
Concentration:	lot specific
Purification:	Affinity Purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	heat shock protein family A member 5
Database Link:	<a href="#">NP_037215</a> <a href="#">Entrez Gene 3309 Human</a> <a href="#">Entrez Gene 14828 Mouse</a> <a href="#">Entrez Gene 25617 Rat</a> <a href="#">P06761</a>

**Background:** GRP78 is a ubiquitously expressed, 78-kDa glucose-regulated protein, and is commonly referred to as an immunoglobulin chain binding protein (BiP). The BiP proteins are categorized as stress response proteins because they play an important role in the proper folding and assembly of nascent protein and in the scavenging of misfolded proteins in the endoplasmic reticulum lumen. Translation of BiP is directed by an internal ribosomal entry site (IRES) in the 5' nontranslated region of the BiP mRNA. BiP IRES activity increases when cells are heat stressed. GRP78 is also critical for maintenance of cell homeostasis and the prevention of apoptosis. Luo et al. have provided findings that suggest GRP78 is essential for embryonic cell growth and pluripotent cell survival. In terms of diseases, GRP78 has been shown to be a reliable biomarker of hypoglycemia, to serve a neuroprotective function in neurons exposed to glutamate and oxidative stress, and its protein levels are reduced in the brains of Alzheimers patients. Also, the induction of the GRP78 protein that results in severe glucose and oxygen deprivation could possibly lead to drug resistance to antitumor drugs.



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**Synonyms:** BiP; FLJ26106; GRP78; MIF2

**Note:** Detects a 78kDa band