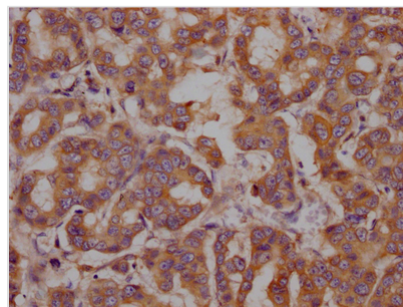




# HSPA5 Antibody

<b>Product Code</b>	CSB-RA847116A0HU
<b>Storage</b>	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
<b>Uniprot No.</b>	P11021
<b>Immunogen</b>	A synthesized peptide derived from human GRP78 BiP
<b>Species Reactivity</b>	Human
<b>Tested Applications</b>	ELISA, IHC; Recommended dilution: IHC:1:50-1:200
<b>Relevance</b>	Probably plays a role in facilitating the assembly of multimeric protein complexes inside the endoplasmic reticulum. Involved in the correct folding of proteins and degradation of misfolded proteins via its interaction with DNAJC10, probably to facilitate the release of DNAJC10 from its substrate.
<b>Form</b>	Liquid
<b>Conjugate</b>	Non-conjugated
<b>Storage Buffer</b>	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
<b>Purification Method</b>	Affinity-chromatography
<b>Isotype</b>	Rabbit IgG
<b>Clonality</b>	Monoclonal
<b>Product Type</b>	Recombinant Antibody
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Research Area</b>	Tags & Cell Markers
<b>Gene Names</b>	HSPA5
<b>Accession NO.</b>	4H12

## Image



IHC image of CSB-RA847116A0HU diluted at 1:100 and staining in paraffin-embedded human breast cancer performed on a Leica Bond™ system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-rabbit IgG polymer labeled by HRP and visualized using 0.05% DAB.

## Description

The HSPA5 gene encodes the binding immunoglobulin protein (BiP), an Hsp70 family chaperone found in the endoplasmic reticulum (ER) lumen. BiP is a multifunctional protein that plays a role in protein folding and calcium homeostasis, as well as being an important regulator of the ER stress response.



It has also been linked to signal transduction through its role as a plasma membrane receptor or co-receptor. BiP also functions as an essential component of the translocation machinery for protein import into the ER, a regulator for Ca<sup>2+</sup> homeostasis in the ER, as well as a facilitator of ER-associated protein degradation (ERAD) by retrograde transport of aberrant proteins across the ER membrane.

The recombinant HSPA5 antibody is a monoclonal antibody made in vitro using the HSPA5 antibody genes that are typically expressed from a plasmid in a stable mammalian cell line. The genes coding for the HSPA5 antibody will ultimately assemble into a fully functional antibody after translation. The synthesized antibody is the recombinant antibody against HSPA5. It underwent purification using Affinity-chromatography. This recombinant HSPA5 antibody is suitable for use in the ELISA, IHC to detect the HSPA5 protein from Human.