

## Datasheet: AHP1369

<b>Description:</b>	RABBIT ANTI HUMAN CD98 LIGHT CHAIN
<b>Specificity:</b>	CD98 LIGHT CHAIN
<b>Other names:</b>	4F2 LIGHT CHAIN
<b>Format:</b>	Purified
<b>Product Type:</b>	Polyclonal Antibody
<b>Isotype:</b>	Polyclonal IgG
<b>Quantity:</b>	50 µg

## Product Details

### Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin (1)	▪			25ug/ml
ELISA			▪	
Immunoprecipitation			▪	

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

**(1) This product requires antigen retrieval using heat treatment prior to staining of paraffin sections. Sodium citrate buffer pH 6.0 is recommended for this purpose.**

### Target Species

Human

### Species Cross Reactivity

Based on sequence similarity, is expected to react with: Mouse, Rat

**N.B.** Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

### Product Form

Purified IgG - liquid

**Antiserum Preparation** Antisera to human CD98LC were raised by repeated immunisations of rabbits with highly

purified antigen. Purified IgG was prepared from whole serum by affinity chromatography.

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<b>Buffer Solution</b>	Phosphate buffered saline
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<b>Preservative Stabilisers</b>	0.1% Sodium Azide (NaN <sub>3</sub> )
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<b>Approx. Protein Concentrations</b>	IgG concentration 1.0mg/ml
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<b>Immunogen</b>	Synthetic Peptide corresponding to an internal domain of the Human CD98LC.
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<b>External Database Links</b>	<b>UniProt:</b> <a href="#">Q01650</a> <a href="#">Related reagents</a>  <b>Entrez Gene:</b> <a href="#">8140</a> SLC7A5 <a href="#">Related reagents</a>
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<b>Synonyms</b>	CD98LC, LAT1, MPE16
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<b>RRID</b>	AB_2190982
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<b>Specificity</b>	<p><b>Rabbit anti human CD98 light chain antibody</b> recognises an internal domain of the Human CD98 light chain (CD98LC), also known as the 4F2 light chain, or LAT-1. CD98LC is a ~55 kDa multi-pass membrane protein which forms a heterodimer with the CD98 heavy chain to allow transport of large branched chain, neutral amino acids into the cell. This transport system leads to the uptake of seven amino acids, including isoleucine, phenylalanine, and methionine.</p> <p>The expression levels of CD98LC are upregulated in a wide spectrum of primary human cancers. Changes in amino acid transporter expression are thought to be an early change in oncogenesis, as they impart growth and survival advantages.</p>
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<b>Histology Positive Control Tissue</b>	Human placenta
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<b>Storage</b>	Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
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<b>Guarantee</b>	18 months from date of despatch.
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<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10303 available at: 10303: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10303.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10303.pdf</a>
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<b>Regulatory</b>	For research purposes only
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## Related Products

### Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...) [FITC](#)

Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)

Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)

Sheep Anti Rabbit IgG (STAR35...) [RPE](#)

Sheep Anti Rabbit IgG (STAR36...) [DyLight®488](#), [DyLight®680](#), [DyLight®800](#)

### Recommended Useful Reagents

[HISTAR DETECTION SYSTEM \(STAR3000A\)](#)

[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025A\)](#)

[100x ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025C\)](#)

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