

## Datasheet: AHP1029

<b>Description:</b>	GOAT ANTI HUMAN CD154
<b>Specificity:</b>	CD154
<b>Other names:</b>	CD40 LIGAND
<b>Format:</b>	Purified
<b>Product Type:</b>	Polyclonal Antibody
<b>Isotype:</b>	Polyclonal IgG
<b>Quantity:</b>	0.1 mg

## 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)	▪			2.5 - 5.0ug/ml
ELISA	▪			0.5 - 2.0ug/ml
Immunoprecipitation			▪	
Western Blotting	▪			0.1 - 0.2ug/ml

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.**

<b>Target Species</b>	Human
<b>Species Cross Reactivity</b>	Reacts with: Yeast <b>N.B.</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.
<b>Product Form</b>	Purified IgG - lyophilized
<b>Reconstitution</b>	Reconstitute with 0.1ml distilled water

Care should be taken during reconstitution as the protein may appear as a film at the bottom of the vial. Bio-Rad recommend that the vial is gently mixed after reconstitution. For long term storage the addition of 0.09% sodium azide is recommended.

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<b>Antiserum Preparation</b>	Antisera to human CD154 were raised by repeated immunisations of goats with highly purified antigen. Purified IgG prepared by affinity chromatography.
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<b>Buffer Solution</b>	Phosphate buffered saline
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<b>Preservative Stabilisers</b>	None present.
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<b>Carrier Free</b>	Yes
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<b>Approx. Protein Concentrations</b>	IgG concentration 1.0mg/ml after reconstitution
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<b>Immunogen</b>	<a href="#">Recombinant human CD154</a>
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<b>External Database Links</b>	<b>UniProt:</b> <a href="#">P29965</a> <a href="#">Related reagents</a>  <b>Entrez Gene:</b> <a href="#">959</a> CD40LG <a href="#">Related reagents</a>
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<b>Synonyms</b>	CD40L, TNFSF5, TRAP
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<b>RRID</b>	AB_609580
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<b>Specificity</b>	<p><b>Goat anti Human CD154 antibody</b> recognizes the soluble form of human CD154, also designated CD40L (sCD40 Ligand), a member of the TNF receptor superfamily, comprising the full-length of the TNF homologous region of CD154.</p> <p>CD154 is expressed predominantly on activated CD4+ T lymphocytes, and acts as a costimulatory molecule in B cell differentiation/proliferation, immunoglobulin switching and germinal centre formation, through interaction with the CD40 receptor on B cells, and cytokines secreted by activated T cells.</p>
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<b>ELISA</b>	Purified goat anti human CD154 may be used in indirect ELISA with <a href="#">recombinant human CD154</a> (PHP126) as the standard.
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<b>Histology Positive Control Tissue</b>	Human cervical squamous cell carcinoma
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<b>Further Reading</b>	1. Hollenbaugh, D. <i>et al.</i> (1992) The human T cell antigen gp39, a member of the TNF gene family, is a ligand for the CD40 receptor: expression of a soluble form of gp39 with B cell co-stimulatory activity. <a href="#">EMBO J. 11 (12): 4313-21.</a>
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**Storage** Prior to reconstitution store at -20°C.  
After reconstitution store at -20°C.

This product should be stored undiluted. Storage in frost-free freezers is not recommended. 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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**Guarantee** 12 months from date of despatch

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**Health And Safety Information** Material Safety Datasheet documentation #10162 available at:  
10162: <https://www.bio-rad-antibodies.com/uploads/MSDS/10162.pdf>

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**Regulatory** For research purposes only

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## Related Products

### Recommended Secondary Antibodies

Rabbit Anti Goat IgG (Fc) (STAR122...) [FITC](#), [HRP](#)

### Recommended Useful Reagents

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

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

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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://bio-rad-antibodies.com/datasheets)  
'M390962:211008'

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