

## Datasheet: AHP1216

<b>Description:</b>	RABBIT ANTI HUMAN CD220
<b>Specificity:</b>	CD220
<b>Other names:</b>	INSULIN RECEPTOR
<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)	▪			5 - 15ug/ml
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting			▪	
Functional Assays			▪	

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>Product Form</b>	Purified IgG - liquid
<b>Antiserum Preparation</b>	Antisera to CD220 were raised by repeated immunisations of rabbit with highly purified antigen. Purified IgG prepared by affinity chromatography.
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative</b>	0.09% Sodium Azide (NaN <sub>3</sub> )

## Stabilisers

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**Approx. Protein Concentrations** IgG concentration 0.1mg/ml

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**Immunogen** Synthetic peptide corresponding to human CD220 - conjugated to KLH.

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## External Database Links

**UniProt:**

[P06213](#)    [Related reagents](#)

**Entrez Gene:**

[3643](#)    INSR    [Related reagents](#)

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**RRID** AB\_2264931

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## Specificity

**Rabbit anti Human CD220 antibody** detects an epitope within in the internal domain of human CD220, also known as Insulin receptor (INRS). CD220 is a heterotetrameric membrane glycoprotein consisting of four disulfide linked subunits; two alpha subunits and two beta subunits. CD220 is a member of the tyrosine kinase family of receptors, and mediates the effects of insulin and IGF-I (insulin-like growth factor-I) through the activation of insulin receptor substrate (IRS) proteins and downstream effector cascades.

Activation of CD220 leads to a number of cellular effects, including glucose uptake, the regulation of cell proliferation and gene expression. These effects mostly occur in skeletal muscle, fat and the liver. Neuronal CD220 signalling has been shown to have an important role in energy homeostasis, reproduction and the development of neurodegenerative diseases.

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## Histology Positive Control Tissue

Pancreas, Islet of Langerhans

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## References

1. Youngren, J.F. (2007) Regulation of insulin receptor function. [Cell Mol Life Sci. 64 \(7-8\): 873-91.](#)
  2. Wada, A. *et al.* (2005) New twist on neuronal insulin receptor signaling in health, disease, and therapeutics. [J Pharmacol Sci. 99 \(2\): 128-43.](#)
  3. Toth, B. *et al.* (2009) Insulin and leptin receptors as possible new candidates for endocrine control in normal and disturbed human pregnancy. [Mol Hum Reprod. 15 \(4\): 231-9.](#)
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## Further Reading

1. Plum, L. *et al.* (2005) The role of insulin receptor signaling in the brain. [Trends Endocrinol Metab. 16 \(2\): 59-65.](#)
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## Storage

This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10040 available at: 10040: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf</a>
<b>Regulatory</b>	For research purposes only

## Related Products

### Recommended Secondary Antibodies

- Sheep Anti Rabbit IgG (STAR34...) [FITC](#)
- Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)
- Sheep Anti Rabbit IgG (STAR35...) [RPE](#)
- Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)
- 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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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)

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