# Datasheet: AHP081

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| **Description:** | SHEEP ANTI HUMAN TRANSFERRIN |
| **Specificity:** | TRANSFERRIN |
| **Format:** | Purified |
| **Product Type:** | Polyclonal Antibody |
| **Isotype:** | Polyclonal IgG |
| **Quantity:** | 1 ml |

## 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.

| | Yes | No | Not Determined | Suggested Dilution |
|---|---|---|---|---|
| Flow Cytometry | | | ▪ | |
| Immunohistology - Frozen | | | ▪ | |
| Immunohistology - Paraffin | | | ▪ | |
| ELISA | | | ▪ | |
| Immunoprecipitation | | | ▪ | |
| Western Blotting | | | ▪ | |
| Immunodiffusion | ▪ | | | Neat |
| Immunofluorescence | ▪ | | | |

Where this antibody 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 antibody for use in their own system using appropriate negative/positive controls.

**Target Species**

Human

**Species Cross Reactivity**

Reacts with: Guinea Pig, Mouse, Rabbit, Rat, Cat
Does not react with:Goat, Chicken, Bovine, Pig, Dog, Horse
**N.B.** Antibody reactivity and working conditions may vary between species.

**Product Form**

Purified IgG - liquid

**Antiserum Preparation**

Antisera to human transferrin were raised by repeated immunisation of sheep with highly purified antigen. Purified IgG was prepared by ion exchange chromatography.

**Buffer Solution**

Glycine buffered saline

**Preservative Stabilisers**

0.09% Sodium Azide
0.1% EACA
0.01% Benzamidine
1mM EDTA

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| **Immunogen** | Human holo-transferrin. |
| **External Database Links** | **UniProt:**<br>P02787 Related reagents<br><br>**Entrez Gene:**<br>7018 TF Related reagents |
| **Specificity** | **Sheep anti Human transferrin antibody** recognizes human transferrin, also known as beta-1 metal-binding globulin siderophilin or serotransferrin. Transferrin is 647 amino acid ~79 kDa iron binding transport glycoprotein involved in iron translocation from sites of degradation to those of of storage and utilization.<br><br>Mutations in the TF gene can lead to the iron overload disorder Atransferrinemia (ATRAF) a disease characterized abnormal transferrin production, iron overload and microcytic hypochromic anemia (Knisely *et al.* 2004). |
| **References** | 1. Pak, S.C. *et al.* (1996) Super-CHO-A cell line capable of autocrine growth under fully defined protein-free conditions. Cytotechnology. 22 (1-3): 139-46.<br>2. Kwon, E.E. & Prineas, J.W. (1994) Blood-brain barrier abnormalities in longstanding multiple sclerosis lesions. An immunohistochemical study. J Neuropathol Exp Neurol. 53 (6): 625-36.<br>3. Sunstrom, N.A. *et al.* (2000) Regulated autocrine growth of CHO cells. Cytotechnology. 34 (1-2): 39-46.<br>4. Navarro-garcía, F. *et al.* (2007) Intoxication of epithelial cells by plasmid-encoded toxin requires clathrin-mediated endocytosis. Microbiology. 153 (Pt 9): 2828-38.<br>5. Tirosh, B. *et al.* (2009) Transferrin as a luminal target for negatively charged liposomes in the inflamed colonic mucosa. Mol Pharm. 6 (4): 1083-91. |
| **Storage** | Store at +4$^{o}$C or at -20$^{o}$C if preferred.<br><br>This product should be stored undiluted.<br><br>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. |
| **Shelf Life** | 18 months from date of despatch. |
| **Health And Safety Information** | Material Safety Datasheet documentation #10087 available at:<br>10087: https://www.bio-rad-antibodies.com/uploads/MSDS/10087.pdf |
| **Regulatory** | For research purposes only |

# Related Products

## Recommended Secondary Antibodies

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|---|---|
| Rabbit Anti Sheep IgG (H/L) (5184-2304...) | Biotin |
| Donkey Anti Sheep IgG (STAR88...) | DyLight®488, DyLight®549, DyLight®649, FITC, HRP |

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**North & South America**
Tel: +1 800 265 7376
Fax: +1 919 878 3751
Email: antibody_sales_us@bio-rad.com

**Worldwide**
Tel: +44 (0)1865 852 700
Fax: +44 (0)1865 852 739
Email: antibody_sales_uk@bio-rad.com

**Europe**
Tel: +49 (0) 89 8090 95 21
Fax: +49 (0) 89 8090 95 50
Email: antibody_sales_de@bio-rad.com

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