



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



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- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

[mail@szabo-scandic.com](mailto:mail@szabo-scandic.com)

[www.szabo-scandic.com](http://www.szabo-scandic.com)

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

## Datasheet for 009-0234

## Human Transferrin Fluorescein

### Overview

<b>Description:</b>	Human Transferrin Fluorescein Conjugated - 009-0234
<b>Item No.:</b>	009-0234
<b>Size:</b>	1 mg
<b>Applications:</b>	Dot Blot, IF
<b>Origin:</b>	Human

### Product Details

<b>Background:</b>	Human transferrin is encoded by the TF gene and is an iron-binding blood plasma glycoprotein that controls the level of free iron in biological fluids. Human transferrin binds iron very tightly but reversibly. Human transferrin is the most important iron pool in mammals. Human transferrin has a molecular weight of around 80 kDa and contains 2 specific high-affinity Fe(III) binding sites. The affinity of Human transferrin for Fe(III) is extremely high but decreases progressively with decreasing pH below neutrality.
<b>Synonyms:</b>	Human transferrin fluorescein conjugation, FITC conjugated transferrin
<b>Species of Origin:</b>	Human
<b>Conjugate:</b>	Fluorescein (FITC)
<b>Format:</b>	Transferrin
<b>Type:</b>	Native Protein
<b>F/P Ratio:</b>	3.7

### Target Details

<b>Purity/Specificity:</b>	This product was prepared from normal serum by delipidation, selective precipitation and tandem molecular sieve chromatography followed by extensive dialysis against the buffer stated above. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Fluorescein, anti-Human Transferrin and anti-Human Serum.
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<b>Relevant Links:</b>	<ul style="list-style-type: none"><li><a href="#">GeneID - 7018</a></li><li><a href="#">UniProtKB - Q06AH7</a></li></ul>
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- [NCBI - AAB22049.1](#)

## Application Details

<b>Tested Applications:</b>	Dot Blot
<b>Suggested Applications:</b>	IF (Based on references)
<b>Application Note:</b>	Human transferrin fluorescein conjugation has been tested in dot blot and is designed for immunofluorescence microscopy, fluorescence based plate assays (FLISA), fluorescent western blotting, multiplex analysis, including multicolor imaging, utilizing various commercial platforms.
<b>Assay Dilutions:</b>	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
<b>IF:</b>	1:500-1:2500

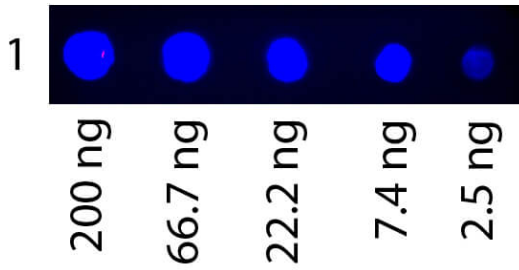
## Formulation

<b>Physical State:</b>	Lyophilized
<b>Concentration:</b>	1.0 mg/mL by UV absorbance at 280 nm
<b>Buffer:</b>	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
<b>Preservative:</b>	0.01% (w/v) Sodium Azide
<b>Stabilizer:</b>	10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free
<b>Reconstitution Volume:</b>	1.0 mL
<b>Reconstitution Buffer:</b>	Restore with deionized water (or equivalent)

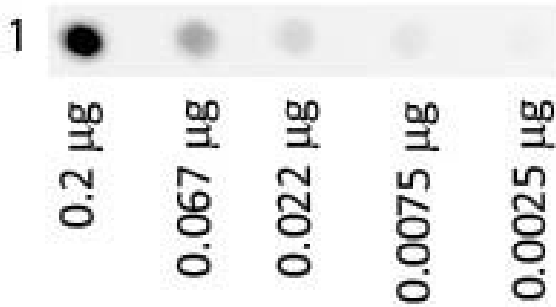
## Shipping & Handling

<b>Shipping Condition:</b>	Ambient
<b>Storage Condition:</b>	Store vial at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
<b>Expiration:</b>	Expiration date is one (1) year from date of receipt.

## Images

**Dot Blot**

Dot Blot of Fluorescein conjugated Human Transferrin.  
Antigen: Human Transferrin Fluorescein. Load: 3-fold serial dilution starting at 200 ng. Block: None.

**Dot Blot**

Dot Blot of Fluorescein conjugated Human Transferrin.  
Antigen: Human Transferrin Fluorescein. Load: 3-fold serial dilution starting at 200 ng. Block: MB-070 for 30 min at RT.

## References

- Zhu H et al. CCT3 drives Sorafenib resistance by inhibiti. *bioRxiv* (2023)
- Offeddu GS et al. Microphysiological endothelial models to characterize subcutaneous drug absorption. *ALTEX*. (2022)
- Schurmann L et al. Inhibition of the DSB repair protein RAD51 potentiates the cytotoxic efficacy of doxorubicin via promoting apoptosis-related death pathways. *Cancer Lett.* (2021)
- Wang-Eckhardt L. et al. A progesterone receptor membrane component 1 antagonist induces large vesicles independent of progesterone receptor membrane component 1 expression. *Biological Chemistry.* (2020)

## Disclaimer

No test method can provide total assurance that the hepatitis B virus, hepatitis C virus, human immunodeficiency virus, or any other infectious agents are absent. Thus, all blood products, including purified proteins derived from human blood sources, should be handled at Biosafety Level 2 as recommended by the CDC\NIH manual entitled Biosafety in Microbiological and Biomedical Laboratories for potentially infectious human serum, blood specimens or proteins derived from same. Source material for the human blood product supplied to your facility has been tested for the detection of HIV antibody, Hepatitis B surface antigen, antibody to Hepatitis C, HIV 1 antigen(s), antibody to HTLV - I/II, and syphilis by FDA guidelines. All units were found to be non-reactive/negative for these tests. All human blood source material is collected in FDA licensed centers and is tested with FDA approved test kits.

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.