

## Anti-Transferrin Receptor/TFRC Antibody (5J722)

### Product Details

Ig Type:	Rabbit IgG
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	5J722
Purification:	Protein A

### Applications

Verified Activity:	<p>1. Immunochemical staining of human TFRC in human placenta with rabbit monoclonal antibody (1:200, formalin-fixed paraffin embedded sections). Positive staining was localized to trophoblast.</p> <p>2. Immunochemical staining of human TFRC in human colon carcinoma with rabbit monoclonal antibody (1:200, formalin-fixed paraffin embedded sections). Positive staining was localized to intestinal gland.</p> <p>3. TFRC was immunoprecipitated using:</p> <ul style="list-style-type: none"><li>-Lane A:0.5 mg Jurkat Whole Cell Lysate.</li><li>-Lane B:0.5 mg MCF-7 Whole Cell Lysate.</li><li>-Lane C:0.5 mg HepG2 Whole Cell Lysate.</li><li>-Lane D:0.5 mg Hela Whole Cell Lysate.</li></ul> <p>-2 µL anti-TFRC rabbit monoclonal antibody and 15 µL of 50 % Protein G agarose.</p> <p>-Primary antibody:</p> <ul style="list-style-type: none"><li>-Anti-TFRC rabbit monoclonal antibody, at 1:100 dilution.</li><li>-Secondary antibody:</li><li>-Dylight 800-labeled antibody to rabbit IgG (H+L), at 1:5000 dilution.</li><li>-Developed using the odyssey technique.</li><li>-Performed under reducing conditions.</li><li>-Predicted band size: 84 kDa.</li><li>-Observed band size: 100 kDa</li></ul>
Application:	IHC-P,IP
Recommended	IHC-P: 1:100-1:500; IP: 0.5-2 µL/mg of lysate

### Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. Preservative-Free.
Shipping:	Shipping with blue ice.

### Antigen Details

Immunogen: Recombinant Protein: Human Transferrin Receptor / TFRC / CD71 protein (TMPY-01873)

Antigen Species: Human

Synonyms: transferrin receptor

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### Research Background

Transferrin receptor protein 1, also known as transferrin receptor, Trfr, p9, CD71 and TFRC, is a single-pass type II membrane protein that belongs to the peptidase M28 family and M28B subfamily. TFRC / CD71 is a membrane-bound protein expressed in larger amounts in proliferating. The specific expression of TFRC can represent a diagnostic tool or a therapeutic target in solid tumours expressing this antigen. Transferrin receptor is necessary for development of erythrocytes and the nervous system. TFRC / CD71 is regulated by cellular iron levels through binding of the iron regulatory proteins, IRP1 and IRP2, to iron-responsive elements in the 3'-UTR. Up-regulated upon mitogenic stimulation. TFRC / CD71 represents a marker of malignant transformation in the pancreas that could be applied as potential diagnostic and therapeutic target.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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