bsm-52793R **[Primary Antibody]**

TFRC Recombinant Rabbit mAb

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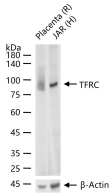
DATASHEET

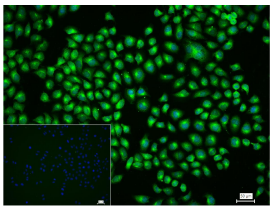
Host: Rabbit
Isotype: IgG
Clonality: Recombinant
CloneNo.: 8G6
GeneID: 7037
SWISS: P02786
Target: TFRC
Immunogen: A synthesized peptide derived from human Transferrin receptor: 2-50/760.
Purification: affinity purified by Protein A
Concentration: 1mg/ml
Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Background: This gene encodes a cell surface receptor necessary for cellular iron uptake by the process of receptor-mediated endocytosis. This receptor is required for erythropoiesis and neurologic development. Multiple alternatively spliced variants have been identified. [provided by RefSeq, Sep 2015]

Applications: **WB** (1:500-2000)
Flow-Cyt (1μg/Test)
ICC/IF (1:50-200)
Reactivity: Human, Rat (predicted: Mouse)
Predicted MW.: 95 kDa
Subcellular Location: Secreted ,Cell membrane

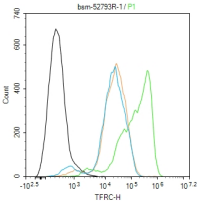
VALIDATION IMAGES



25 ug total protein per lane of various lysates (see on figure) probed with TFRC monoclonal antibody, unconjugated (bsm-52793R) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.



4% Paraformaldehyde-fixed Hela (H) cell; Triton X-100 at r.t. for 20 min; Antibody incubation with (TFRC) monoclonal Antibody, unconjugated (bsm-52793R) 1:100, 90 min at 37°C; followed by conjugated Goat Anti-Rabbit IgG antibody (green, bs-40295G-FITC) at 37°C for 90 min, DAPI (blue, C02-04002) was used to stain the cell nuclei. PBS instead of the primary antibody was used as the blank control.



The Jar (H) cells were fixed with 4% PFA (10 min at r.t.) and then permeabilized with 90% ice-cold methanol for 20 min at -20°C,the cells then were incubated in 5%BSA to block non-specific protein-protein interactions (30 min at r.t.).Primary Antibody (green):Rabbit Anti-TFRC antibody (bsm-52793R): 1 μg/10^6 cells; Secondary Antibody (white blue): Goat anti-Rabbit IgG-FITC (bs-40295G-FITC): 1 μg/test. Isotype Control (orange): Rabbit IgG (bs-0295P). Blank control (black): PBS. Acquisition of 20,000 events was performed.

SELECTED CITATIONS

- **[IF=17.1]** Lei Liu. et al. Myricetin Oligomer Triggers Multi-Receptor Mediated Penetration and Autophagic Restoration of Blood-Brain Barrier for Ischemic Stroke Treatment. ACS NANO. 2024;XXXX(XXX):XXX-XXX WB ;Mouse. 38533773
- **[IF=14.7]** Yanhong Xing. et al. Lysosomes finely control macrophage inflammatory function via regulating the release of lysosomal Fe^{2+} through TRPML1 channelNAT COMMUN. 2025 Jan 24;16(1):985. Western blot ;Mouse. 39856099