

### Anti-Transferrin Receptor antibody [13E4] ab38171

★★★★★ [2 Abreviews](#) [12 References](#) [画像数 2](#)

#### 製品の概要

|              |  |
|--------------|--|
| 製品名          | Anti-Transferrin Receptor antibody [13E4]  |
| 製品の詳細        | Mouse monoclonal [13E4] to Transferrin Receptor  |
| 由来種          | Mouse  |
| 特異性          | This antibody is specific for Transferrin Receptor and the complex between soluble Transferrin Receptor and Transferrin.   |
| アプリケーション     | <b>適用あり:</b> ICC/IF, Flow Cyt  |
| 種交差性         | <b>交差種:</b> Human  |
| 免疫原          | Purified human soluble transferrin receptor.   |
| ポジティブ・コントロール | This antibody gave a positive result when used in the following formaldehyde fixed cell lines: DU145.  |
| 特記事項         | <p>This product was changed from ascites to tissue culture supernatant on 16<sup>th</sup> July 2018. Please note that the dilutions may need to be adjusted accordingly. If you have any questions, please do not hesitate to contact our scientific support team.</p> <p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</p> |

#### 製品の特性

|       |   |
|-------|---|
| 製品の状態 | Liquid  |
| 保存方法  | Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles. |
| バッファー | <p>pH: 7.40</p> <p>Preservative: 0.1% Sodium azide</p> <p>Constituent: PBS</p>        |
| 精製度   | Protein A purified  |
| ポリ/モノ | モノクローナル   |

|        |       |
|--------|-------|
| クローン名  | 13E4  |
| ミエローマ  | Sp2/0 |
| アイソタイプ | IgG2a |

## アプリケーション

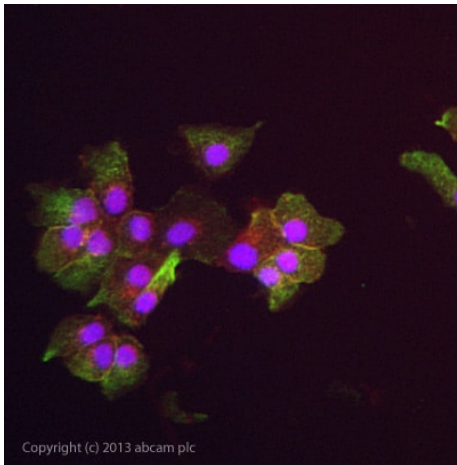
The Abpromise guarantee **Abpromise保証は、次のテスト済みアプリケーションにおけるab38171の使用に適用されます**  
 アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご確認ください。

| アプリケーション | Abreviews | 特記事項  |
|----------|-----------|---|
| ICC/IF   |           | Use a concentration of 5 µg/ml.   |
| Flow Cyt |           | Use 0.5µg for 10 <sup>6</sup> cells.<br><b>ab170191</b> - Mouse monoclonal IgG2a, is suitable for use as an isotype control with this antibody. |

## ターゲット情報

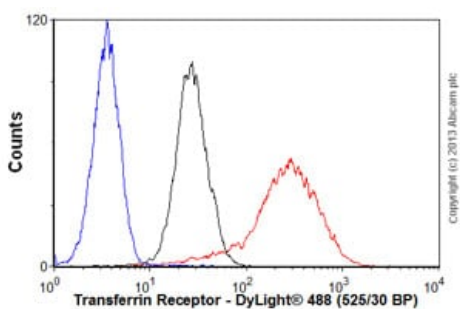
|       |   |
|-------|---|
| 機能    | Cellular uptake of iron occurs via receptor-mediated endocytosis of ligand-occupied transferrin receptor into specialized endosomes. Endosomal acidification leads to iron release. The apotransferrin-receptor complex is then recycled to the cell surface with a return to neutral pH and the concomitant loss of affinity of apotransferrin for its receptor. Transferrin receptor is necessary for development of erythrocytes and the nervous system (By similarity). A second ligand, the hereditary hemochromatosis protein HFE, competes for binding with transferrin for an overlapping C-terminal binding site. Positively regulates T and B cell proliferation through iron uptake (PubMed:26642240).<br>(Microbial infection) Acts as a receptor for new-world arenaviruses: Guanarito, Junin and Machupo virus. |
| 関連疾患  | Immunodeficiency 46   |
| 配列類似性 | Belongs to the peptidase M28 family. M28B subfamily.<br>Contains 1 PA (protease associated) domain.   |
| 翻訳後修飾 | N- and O-glycosylated, phosphorylated and palmitoylated. The serum form is only glycosylated. Proteolytically cleaved on Arg-100 to produce the soluble serum form (sTfR).<br>Palmitoylated on both Cys-62 and Cys-67. Cys-62 seems to be the major site of palmitoylation.   |
| 細胞内局在 | Secreted and Cell membrane. Melanosome. Identified by mass spectrometry in melanosome fractions from stage I to stage IV.   |

## 画像



Immunocytochemistry/ Immunofluorescence - Anti-Transferrin Receptor antibody [13E4] (ab38171)

ICC/IF image of ab38171 stained DU145 cells. The cells were 4% formaldehyde fixed (10 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody ab38171 at 5µg/ml overnight at +4°C. The secondary antibody (green) was DyLight® 488 goat anti- mouse ([ab96879](#)) IgG (H+L) used at a 1/250 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.



Flow Cytometry - Anti-Transferrin Receptor antibody [13E4] (ab38171)

Overlay histogram showing Jurkat cells stained with ab38171 (red line). The cells were fixed with 4% paraformaldehyde (10 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab38171, 0.5µg/1x10<sup>6</sup> cells) for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-mouse IgG (H+L) ([ab96879](#)) at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was mouse IgG2a [ICIGG2A] ([ab91361](#), 1µg/1x10<sup>6</sup> cells) used under the same conditions. Unlabelled sample (blue line). Acquisition of >5,000 events were collected using a 20mW Argon ion laser (488nm) and 525/30 bandpass filter. This antibody gave a positive signal in Jurkat cells fixed with 80% methanol (5 min)/permeabilized with 0.1% PBS-Tween for 20 min used under the same conditions.

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