

#### DESCRIPTION

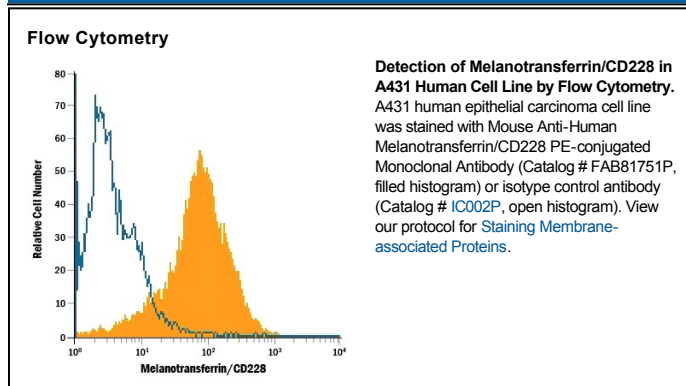
<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human Melanotransferrin/CD228 in direct ELISAs.
<b>Source</b>	Monoclonal Mouse IgG <sub>1</sub> Clone # 893416
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	Human embryonic kidney cell line HEK293-derived recombinant human Melanotransferrin/CD228 Met1-Gly711 Accession # P08582
<b>Conjugate</b>	Phycoerythrin Excitation Wavelength: 488 nm Emission Wavelength: 565-605 nm
<b>Formulation</b>	Supplied in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details.  *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

#### APPLICATIONS

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	Recommended Concentration	Sample
<b>Flow Cytometry</b>	10 $\mu$ L/10 <sup>6</sup> cells	See Below

#### DATA



#### PREPARATION AND STORAGE

<b>Shipping</b>	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
<b>Stability &amp; Storage</b>	<b>Protect from light. Do not freeze.</b> <ul style="list-style-type: none"> <li>12 months from date of receipt, 2 to 8 °C as supplied.</li> </ul>

#### BACKGROUND

Melanotransferrin, also known as MTF, CD228, Melanoma-associated Antigen p97, MAP97 and MF12, is a 90-97 kDa sialoglycoprotein member of the transferrin family. Unlike other transferrins, which are secreted, MTF is usually found tethered to the cell membrane by a glycosyl phosphatidyl inositol anchor, with only small amounts of soluble protein detected. MTF is highly expressed on melanoma cells, and at lower levels in salivary gland, pancreas, kidney and testis. Like other transferrins, MTF is an iron-binding protein, and may play roles in cellular proliferation, tumorigenesis, metastasis and migration. Full-length human, mouse and rat MTF is synthesized as a 738 amino acid (aa) protein. Over aa 1-711, human MTF shares 85 and 86% aa identity with mouse and rat MTF, respectively.