

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Melanotransferrin/CD228 in direct ELISAs.
Source	Monoclonal Mouse IgG ₁ Clone # 893416
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	HEK293 human embryonic kidney cell line transfected with human Melanotransferrin/CD228 Gly20-Gly711 Accession # P08582
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 nm
Formulation	Supplied 0.2 mg/mL 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
Flow Cytometry	0.25-1 µg/10 ⁶ cells	A431 human epithelial carcinoma cell line

PREPARATION AND STORAGE

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

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 738 amino acids (aa). Over aa 1-711, human MTF shares 85 and 86% aa identity with mouse and rat MTF, respectively.

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