

TECHNICAL DATA SHEET

CyFlow™ CD266 PE Anti-Hu/Ms; Clone ITEM-4

REF AD595460

For Research Use Only.
Not for use in diagnostic or therapeutic procedures.

Specifications

Antigen	CD266
Alternative Names	TWEAK R, Fn14, FN14, TNFRSF12A
Clone	ITEM-4
Clonality	monoclonal
Format	PE
Host / Isotype	Mouse / IgG2b
Species Reactivity	Human Mouse
Negative Species Reactivity	—
Quantity [Concentration]	0.1 mg [0.1 mg/ml]
Immunogen	Human CD266-transfected P815 cells

Specificity

The mouse monoclonal antibody ITEM-4 recognizes CD266 (TWEAK R) antigen, a TNFR superfamily receptor for CD255 (TWEAK), a TNF-like weak inducer of apoptosis.

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Application

The reagent is designed for Flow Cytometry analysis. Working concentrations should be determined by the investigator.

Other usages may be determined from the scientific literature.

Storage Buffer

The reagent is provided in stabilizing phosphate buffered saline (PBS) solution, pH $\approx$ 7.4, containing 0.1% (w/v) sodium azide.

Storage and Stability

Storage	Avoid prolonged exposure to light. Store in the dark at 2-8°C. Do not freeze.
Stability	Do not use after expiration date stamped on vial label.

Background Information

CD266 (TWEAK R, TNFRSF12A), also known as FN14 (fibroblast growth factor-inducible 14), is a receptor for CD255 (TWEAK), the TNF-like weak inducer of apoptosis. CD266 is expressed on endothelial cells, as well as on some cancer tissues, and plays a role in CD255-induced endothelial cell migration, proliferation, and angiogenesis. The CD255-CD266 interaction, or antibody-mediated triggering of CD266 is also able to induce apoptosis and necrosis in CD266-positive cells (including tumor cells), which might have therapeutic potential.

References

- Nakayama M, Ishidoh K, Kojima Y, Harada N, Kominami E, Okumura K, Yagita H: Fibroblast growth factor-inducible 14 mediates multiple pathways of TWEAK-induced cell death. J Immunol. 2003 Jan 1; 170(1):341-8. < PMID: 12496418 >
- Roos C, Wicovsky A, Müller N, Salzmann S, Rosenthal T, Kalthoff H, Trauzold A, Seher A, Henkler F, Kneitz C, Wajant H: Soluble and transmembrane TNF-like weak inducer of apoptosis differentially activate the classical and noncanonical NF-kappa B pathway. J Immunol. 2010 Aug 1; 185(3):1593-605. < PMID: 20610643 >
- Yoriki R, Akashi S, Sho M, Nomi T, Yamato I, Hotta K, Takayama T, Matsumoto S, Wakatsuki K, Migita K, Yagita H, Nakajima Y: Therapeutic potential of the TWEAK/Fn14 pathway in intractable gastrointestinal cancer. Exp Ther Med. 2011 Jan; 2(1):103-108. < PMID: 22977477 >

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- Sanz AB, Sanchez-Niño MD, Carrasco S, Manzarbeitia F, Ruiz-Andres O, Selgas R, Ruiz-Ortega M, Gonzalez-Enguita C, Egido J, Ortiz A: Inflammatory cytokines and survival factors from serum modulate tweak-induced apoptosis in PC-3 prostate cancer cells. PLoS One. 2012; 7(10):e47440. < PMID: 23077618 >

The Safety Data Sheet for this product is available at www.sysmex-partec.com/services.

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