

## Product datasheet for **TA320496**

### **TWEAKR (TNFRSF12A) Mouse Monoclonal Antibody [Clone ID: ITEM-4]**

#### **Product data:**

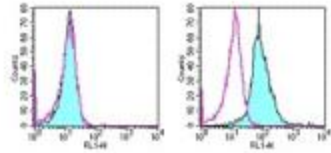
Product Type:	Primary Antibodies
Clone Name:	ITEM-4
Applications:	FC
Recommended Dilution:	Flow, IHC, WB
Reactivity:	Human, Mouse
Host:	Mouse
Clonality:	Monoclonal
Formulation:	Aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer
Concentration:	lot specific
Purification:	Affinity purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	tumor necrosis factor receptor superfamily member 12A
Database Link:	<a href="#">NP_057723</a> <a href="#">Entrez Gene 27279 Mouse</a> <a href="#">Entrez Gene 51330 Human</a> <a href="#">Q9NP84</a>

**Background:** The ITEM-4 antibody reacts with human TWEAK Receptor/Fn14 (fibroblast growth factor-inducible 14 kDa protein). Fn14 is distantly related to the TNFR family, containing one cysteine-rich domain in the extracellular region and a TNFR-associated factor binding domain but does not contain a death domain (DD) cytoplasmic region. Fn14 plays a role in TWEAK-induced endothelial cell migration, proliferation, and angiogenesis. TWEAK-induced cell death via Fn14 includes both apoptosis and necrosis and can be blocked by an anti-TWEAK antibody, CARL-1. Fn14 is expressed on HUVEC and in some cancer tissues but not on freshly isolated PBMCs. Fn14 mRNA expression has been identified during liver regeneration. It has been reported that ITEM-4 cross-reacts with mouse Fn14. In the mouse, Fn14 is reported to be constitutively expressed by Colon 26 cell line. The ITEM-4 antibody has been shown to have blocking function.



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**Synonyms:** CD266; FN14; TWEAKR  
**Protein Families:** Druggable Genome, Transmembrane  
**Protein Pathways:** Cytokine-cytokine receptor interaction

**Product images:**

Staining of non-transfected (left) and human Fn14 transfected (right) L5178Y cells with 0.5 ug of Mouse IgG2a K Isotype Control Purified (open histogram) or 0.5 ug Anti-Human/Mouse CD266 (TWEAK Receptor) Purified (filled histogram) followed by Anti-Mouse IgG FITC. Total viable cells were analyzed.