

## Human/Mouse/Rat Teneurin-4 Alexa Fluor® 488-conjugated Antibody

Antigen Affinity-purified Polyclonal Sheep IgG Catalog Number: AF6320G 100 µg

DESCRIPTION					
Species Reactivity	Human/Mouse/Rat				
Specificity  Detects human, mouse, and rat Teneurin-4 in Western blots and human Teneurin-4 in direct ELISAs. In direct ELISAs, app 5% cross-reactivity with recombinant human (rh) Teneurin-1 is observed, and less than 1% cross-reactivity with					
Source	Polyclonal Sheep IgG				
Purification	on Antigen Affinity-purified				
Immunogen	E. coli-derived recombinant human Teneurin-4 Lys61-Lys340 Accession # Q6N022				
Conjugate	gate Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm				
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide				
	*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Shee (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.

Western Blot Optimal dilution of this antibody should be experimentally determined.

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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. 12 months from date of receipt, 2 to 8 °C as supplied

## **BACKGROUND**

Teneurin-4 (also Ten-m4, Doc4 and tenascin-M4) is a 250-300 kDa member of the tenascin family, teneurin subfamily of transmembrane (TM) molecules. It is a covalently-linked homodimer that is widely expressed in the embryo, and in adult, participates in cell-to-cell adhesion, and may communicate ER stress levels. Human Teneurin-4 is a 2769 amino acid (aa) type II TM glycoprotein. It contains a 345 aa cytoplasmic region (aa 1-345), plus a 2403 aa extracellular domain (ECD) (aa 367-2769). The ECD possesses eight sequential EGF-like domains (aa 561-831), five NHL repeats, each of which form a β-propeller (aa 1216-1566), and 23 YD/TyrAsp-containing repeats that bind carbohydrates. C-terminal cleavage generates a short 5 kDa, 41 aa peptide (aa 2726-2766) termed TCAP-1 that shows bioactivity. Teneurin-4 is hypothesized to form heterodimers with other teneurins. Over aa 61-340, human Teneurin-4 shares 95% aa identity with mouse Teneurin-4.

## PRODUCT SPECIFIC NOTICES

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