Mouse CTHRC1 Alexa Fluor® 488-conjugated Antibody

Antigen Affinity-purified Polyclonal Sheep IgG
Catalog Number: AF5960G
100 µg

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse CTHRC1 in direct ELISAs and Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse CTHRC1 Ser33-Lys245 Accession # Q3UAP6
Conjugate	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 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.*

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

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

BACKGROUND

CTHRC1 (Collagen triple helix repeat-containing protein 1) is a 28-30 kDa, secreted glycoprotein that bears similarity to the C1q/TNFα-related family of proteins. It is expressed by disparate cell types, including renal epithelium, neurons, osteoblasts, and smooth muscle cells. Functionally, it is recognized to be induced by BMP-2 and to block TGFβ-induced collagen type I and III synthesis. Mouse CTHRC1 is 245 amino acids in length. It contains a 32 amino acid (aa) signal sequence, a 16 aa prosegment (aa 33-48), and a 197 aa mature region that shows one collagen-like domain (aa 59-92). Proteolytic processing may generate multiple CTHRC1 isoforms. There is the potential for an intracellular full-length 33 kDa, 245 aa form, plus extracellular isoforms that are 28 kDa (aa 33-245), 26 kDa (aa 49-245), 20 kDa (aa 98-245) and 18 kDa and 16 kDa in size, the last two representing variants of the 20 kDa form with C-terminal processing. CTHRC1 may undergo dimerization, trimerization and oligomerization. One mouse splice variant shows a deletion of aa 53-126. Full-length mouse CTHRC1 shares 99% and 93% aa sequence identity with rat and human CTHRC1, respectively.

PRODUCT SPECIFIC NOTICES

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