

## Mouse CTHRC1 Biotinylated Antibody

Antigen Affinity-purified Polyclonal Sheep IgG Catalog Number: BAF5960

DESCRIPTION	
Species Reactivity	Mouse
Specificity	Detects mouse CTHRC1 in Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse CTHRC1 Ser33-Lys245 Accession # Q3UAP6
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein. See Certificate of Analysis for details.

## 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
Western Blot	0.1 µg/mL	Recombinant Mouse CTHRC1

PREPARATION AND STORAGE		
Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.	
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.	
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.	
	<ul> <li>12 months from date of receipt, -20 to -70 °C as supplied.</li> </ul>	
	<ul> <li>1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> </ul>	
	<ul> <li>6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>	

## 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 TGFB-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

Rev. 3/7/2019 Page 1 of 1



Global bio-techne.com info@bio-techne.com techsupport@bio-techne.com TEL +1 612 379 2956 USA TEL 800 343 7475 Canada TEL 855 668 8722 China TEL +86 (21) 52380373 Europe | Middle East | Africa TEL +44 (0)1235 529449