

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human CapG in direct ELISAs and Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human CapG Met1-Lys348 Accession # P40121
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 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.
Immunocytochemistry	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

CapG ("Caps" barbed actin ends and resembles Gelsolin; also Macrophage capping protein/MCP and actin regulatory protein Cap-G) is a 40-42 kDa member of the Villin/Gelsolin family of proteins. It is expressed by macrophages/monocytes and endothelial cells, and is found in both cytoplasm and nucleus. It appears to be involved in cell motility, and is known to bind to (but not cleave) actin filament ends in a calcium-dependent manner. This regulates the growth of actin filaments. Human CapG is 348 amino acids (aa) in length. It contains an N-terminal gelsolin repeat (aa 27-75), followed by a NLS (aa 137-146), two consecutive gelsolin-like repeats (aa 148-188 and 261-307), and one utilized phosphorylation site at Ser337. There is at least one potential isoform variant that contains a deletion of aa 64-84. Full-length human CapG shares 91% aa sequence identity with mouse CapG.

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