



# Magic™ Sheep anti-Human cystatin C

## Polyclonal antibody (DPAB-L21514)

This product is for research use only and is not intended for diagnostic use.

### PRODUCT INFORMATION

#### Antigen Description

The cystatin superfamily encompasses proteins that contain multiple cystatin-like sequences. Some of the members are active cysteine protease inhibitors, while others have lost or perhaps never acquired this inhibitory activity. There are three inhibitory families in the superfamily, including the type 1 cystatins (stefins), type 2 cystatins and the kininogens. The type 2 cystatin proteins are a class of cysteine proteinase inhibitors found in a variety of human fluids and secretions, where they appear to provide protective functions. The cystatin locus on chromosome 20 contains the majority of the type 2 cystatin genes and pseudogenes. This gene is located in the cystatin locus and encodes the most abundant extracellular inhibitor of cysteine proteases, which is found in high concentrations in biological fluids and is expressed in virtually all organs of the body. A mutation in this gene has been associated with amyloid angiopathy. Expression of this protein in vascular wall smooth muscle cells is severely reduced in both atherosclerotic and aneurysmal aortic lesions, establishing its role in vascular disease. Alternative splicing results in multiple transcript variants encoding a single protein. [provided by RefSeq, Dec 2013]

<b>Specificity</b>	Human Cystatin C
<b>Immunogen</b>	Recombinant human cystatin C
<b>Source/Host</b>	Sheep
<b>Species Reactivity</b>	Human
<b>Purification</b>	Immunoaffinity method utilizing cystatin C-Sepharose as an affinity matrix.
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	IA, WB, IHC, IP
<b>Buffer</b>	PBS, pH 7.4, 0.1 % sodium azide (NaN <sub>3</sub> )

<b>Preservative</b>	0.1% Sodium Azide
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<b>Storage</b>	4°C
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## GENE INFORMATION

<b>Gene Name</b>	<a href="#">CST3 cystatin C [ Homosapiens ]</a>
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<b>Official Symbol</b>	CST3
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<b>Synonyms</b>	Cystatin-C; cystatin 3; gamma-trace; OTTHUMP00000030440; OTTHUMP00000164181; OTTHUMP00000164182; post-gamma-globulin; bA218C14.4 (cystatin C); neuroendocrine basic polypeptide; ARMD11; MGC117328; CST3; cystatin C (amyloid angiopathy and cerebral hemorrhage)
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<b>Entrez Gene ID</b>	<a href="#">1471</a>
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<b>Protein Refseq</b>	<a href="#">NP_000090</a>
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<b>UniProt ID</b>	<a href="#">P01034</a>
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<b>Chromosome Location</b>	20p11.21
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<b>Pathway</b>	Salivary secretion, organism-specific biosystem; Salivary secretion, conserved biosystem
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<b>Function</b>	Beta-amyloid binding; cysteine-type endopeptidase inhibitor activity; peptidase inhibitor activity; protease binding
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