

SM1013P**Monoclonal Antibody to Human J-chain - Purified**

Alternate names:	IGCJ, IGJ
Quantity:	0.2 mg
Concentration:	1.0 mg/ml
Background:	Immunoglobulin J chain (IGJ) serves to link two monomer units of either IgM or IgA. In the case of IgM, the J chain joined dimer is a nucleating unit for the IgM pentamer, and in the case of IgA it induces larger polymers. It also helps to bind these immunoglobulins to secretory components.
Uniprot ID:	P01591
NCBI:	NP_653247.1
GeneID:	3512
Host / Isotype:	Mouse / IgG1
Recommended Isotype Controls:	SM10P (for use in human samples), AM03095PU-N
Clone:	MC19-9
Immunogen:	Human J Chain. Remarks: Spleen cells from immunised BALB/c mice were fused with cells of the mouse NS1 myeloma cell line.
Format:	State: Liquid purified IgG fraction Purification: Affinity Chromatography on Protein A Buffer System: TRIS buffered Saline containing 0.09% Sodium Azide as preservative
Applications:	ELISA (20 µg/ml). Immunoprecipitation (20 µg/ml). Immunohistochemistry on Frozen Sections (1/200). Western blotting (only under Reducing Conditions). Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	The antibody reacts with Human J chain as tested by ELISA using purified Human Ig fragments as the solid phase target antigen. The antibody does not detect J chain in intact IgM in ELISA assays due to steric hindrance. In Western blotting techniques SM1013P detects J chain in IgM only in reducing conditions. Species: Human. Other species not tested.
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.

Product Citations:**Purchased from Acris:**

1. Leithäuser F, Bäuerle M, Huynh MQ, Möller P. Isotype-switched immunoglobulin genes with a high load of somatic hypermutation and lack of ongoing mutational activity are prevalent in mediastinal B-cell lymphoma. *Blood*. 2001 Nov 1;98(9):2762-70. PubMed PMID: 11675349.

General Readings:

1. Arnold JN, Wormald MR, Suter DM, Radcliffe CM, Harvey DJ, Dwek RA, et al. Human serum IgM glycosylation: identification of glycoforms that can bind to mannan-binding lectin. *J Biol Chem*. 2005 Aug 12;280(32):29080-7. Epub 2005 Jun 14. PubMed PMID: 15955802.