

Monoclonal Antibody to Chimaeric human IgA2 anti Nitrophenyl-hapten (NP) - Purified

Catalog No.: SM2184P

Quantity: 0.5 mg

Concentration: 1.0 mg/ml

Host / Isotype: Human / IgA

Clone: JW393A

Format: **State:** Liquid purified IgA fraction
Purification: Affinity chromatography using NIP cap-sepharose
Buffer System: PBS containing 0.09% Sodium Azide as preservative

Applications: ELISA.
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity: The immunoglobulin heavy chain has been produced by the linking of the IgA2 antigen-binding, variable region genes of a mouse hybridoma to human constant region genes by in vitro DNA recombination procedures. The resulting chimaeric antibody is subsequently expressed by the myeloma cell-line J558L after transfection. The J558L cell-line itself secretes a lambda light chain but no heavy chain. Thus a chimaeric human IgA2 antibody specific for NP has been produced. This antibody may be used for studying the effector functions of the different human immunoglobulin classes and subclasses and for diagnostic and therapeutic research. Provision of a source of highly pure human immunoglobulin class and subclass for quantitating human immunoglobulins in serum.
Species: Human.
Other species not tested.

Storage: Store the antibody 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.

General Readings:

1. Neuberger MS, Williams GT, Fox RO. Recombinant antibodies possessing novel effector functions. *Nature*. 1984 Dec 13-19;312(5995):604-8. PubMed PMID: 6095112.
2. Neuberger, M.S. et al. (1985) Making Novel Antibodies by expressing transfected immunoglobulin genes. *TIBS* 347-349.
3. Neuberger MS, Williams GT, Mitchell EB, Jouhal SS, Flanagan JG, Rabbitts TH. A hapten-specific chimaeric IgE antibody with human physiological effector function. *Nature*. 1985 Mar 21-27;314(6008):268-70. PubMed PMID: 2580239.
4. Neuberger, M.S. et al. (1986) Construction of novel antibodies by use of DNA transfection: design of plasmid vectors. *Phil. Trans. R. Soc. London*. A317: 425-432.