

**NPA074Hu01 100µg**  
**Native Immunoglobulin G1 (IgG1)**  
**Organism Species: Homo sapiens (Human)**  
***Instruction manual***

FOR IN VITRO USE AND RESEARCH USE ONLY  
NOT FOR USE IN CLINICAL DIAGNOSTIC PROCEDURES

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9th Edition (Revised in Jul, 2013)

## **[ PROPERTIES ]**

**Host:** Native

**Source:** Human Plasma

**Subcellular Location:** Secreted.

**Purity:** >90%

**Endotoxin Level:** <1.0EU per 1µg (determined by the LAL method).

**Formulation:** Supplied as lyophilized form in PBS, pH7.4, containing 1mM DTT, 5% trehalose, 0.05% sarcosyl and preservative.

**Applications:** SDS-PAGE; WB; ELISA; IP.

(May be suitable for use in other assays to be determined by the end user.)

## **[ RELEVANCE ]**

Immunoglobulin G (IgG) is one of the most abundant proteins in serum and the major components of the immune system. IgG is important for our defence against microorganisms and the molecules, which are produced by B lymphocytes as a part of our adaptive immune response. By binding many kinds of pathogen—representing viruses, bacteria, and fungi—IgG protects the body from infection. There are four IgG subclasses (IgG1, 2, 3, and 4) in humans, named in order of their abundance in serum (IgG1 being the most abundant).

## [ **USAGE** ]

Reconstitute in sterile PBS, pH7.2-pH7.4.

## [ **STORAGE AND STABILITY** ]

**Storage:** Avoid repeated freeze/thaw cycles.

Store at 2-8°C for one month.

Aliquot and store at -80°C for 12 months.

**Stability Test:** The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.

## [ **REFERENCES** ]

1. Strop P., *et al.* (2012) J Mol Biol. 420(3):204-19. Epub 2012 Apr 25.
2. Suzuki T., *et al.* (2010) J Immunol. 184(4):1968-76. Epub 2010 Jan 18.
3. Kaschak T., *et al.* (2011) MAbs. 3(6):577-83. Epub 2011 Nov 1.
4. Traxlmayr MW., *et al.* (2012) J Mol Biol. 423(3):397-412.