



NPA074Mu01 100µg
Native Immunoglobulin G1 (IgG1)
Organism Species: Mus musculus (Mouse)
Instruction manual

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

12th Edition (Revised in Aug, 2016)

[PROPERTIES]

Source: Natural Extract

Host: Mouse (Serum)

Tissue Specificity: Serum.

Subcellular Location: Secreted.

Purity: >90% as determined by SDS-PAGE.

Purification Methods: Salt co-precipitation and affinity chromatography.

Traits: Freeze-dried powder

Buffer Formulation: PBS, pH7.4, containing 1mM DTT, 5% Trehalose and Proclin300.

Original Concentration: 200µg/mL

Applications: Positive Control; Immunogen; SDS-PAGE; WB.

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

Predicted isoelectric point: 8.6

Accurate Molecular Mass: 50&25kDa

Observe Molecular Mass: 55&27kDa

Phenomenon explanation:

IgG antibodies are large molecules of about 150kDa made of four peptide chains. It contains two identical class γ heavy chains of about 50kDa and two identical light chains of about 25kDa. There are four IgG subclasses (IgG1, IgG2a, IgG2b, IgG3) in mouse. As a result of disulfide bond, the apparent molecular mass of IgG is approximately two lines 55kDa heavy chain and two lines 27kDa light chain in SDS-PAGE under reducing conditions.

[USAGE]

Reconstitute in PBS (PH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

[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. 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. The loss rate is less than 5% within the expiration date under appropriate storage condition.

[IDENTIFICATION]

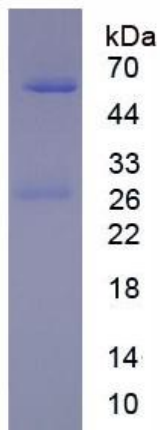


Figure 1. SDS-PAGE