

P91682Hu91
Immunoglobulin G2 (IgG2)
Organism: Homo sapiens (Human)
Instruction manual

FOR IN VITRO USE AND RESEARCH USE ONLY
 NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES

5th Edition (Revised in January, 2013)

[DESCRIPTION]

Protein Names: Immunoglobulin G2

Synonyms: IgG2

Species: Human

Size: 100µg

Source: Normal human plasma

Subcellular Location: Secreted.

[PROPERTIES]

Purity: >80%, by SDS-PAGE.

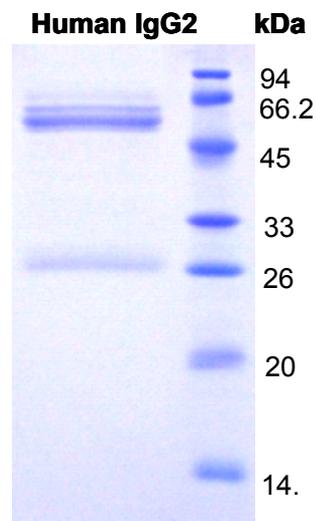
Form: Lyophilized.

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

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

[RELEVANCE]

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). Human IgG2 subclass has been identified to exist as an ensemble of distinct isoforms, designated IgG2-A, IgG2-B, and IgG2-A/B, which differ by the disulfide connectivity at the hinge region. IgG2, the second largest part of IgG isotypes in humans, comprises 20-25% of the main subclass and is the prevalent immune response against carbohydrate-/polysaccharid antigens.



15% SDS-PAGE

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[PREPARATION]

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. Burkard T.R., *et al.* (2011) BMC Syst. Biol. 5:17-17.
2. Chen X., *et al.* (2009) Glycobiology 19:240-249.
3. Bell C.H., *et al.* (2008) J. Mol. Biol. 375:969-978.
4. O'Hanlon T.P., *et al.* (2008) Arthritis Rheum. 58:3239-3246.