ALPHA DIAGNOSTIC INTERNATIONAL

Product Specification Sheet

Rabbit Anti-Soy Protein Antibody

□ Cat. # SOY11-S Rabbit Anti-Soy protein antiserum, IgG **SIZE**: 100 ul

Soy protein is a protein that is isolated from soybean. It is made from soybean meal that has been dehulled and defatted. Dehulled and defatted soybeans are processed into three kinds of high protein commercial products : soy flour, concentrates, and isolates. Soy protein isolate has been used since 1959 in foods for its functional properties. Recently, soy protein popularity has increased due to its use in health food products, and many countries allow health claims for foods rich in soy protein.

Soy protein is generally regarded as being concentrated in protein bodies, which are estimated to contain at least 60–70% of the total soybean protein. Upon germination of the soybean, the protein will be digested, and the released amino acids will be transported to locations of seedling growth. Soybeans contain a small but newly very significant 2S Albumin storage protein. Legume proteins, such as soy and pulses, belong to the globulin family of seed storage proteins called legumin and vicilins, or in the case of soybeans, glycinin and beta-conglycinin. Soybeans also contain biologically active or metabolic proteins, such as enzymes, trypsin inhibitors, hemagglutinins, and cysteine proteases very similar to papain. The soy cotyledon storage proteins, important for human nutrition, can be extracted most efficiently by water, water plus dilute alkali (pH 7–9), or aqueous solutions of sodium chloride (0.5–2 M ≈ 30-120 g/l) from dehulled and defatted soybeans that have undergone only a minimal heat treatment so the protein is close to being native or undenatured. Soy protein contains phytoestrogens, which bind to estrogen receptors in the body.

Source of Antigen and Antibodies

Antigen	Soybean protein acetone powder
Ab Host/type	Rabbit polyclonal IgG supplied in PBS, pH 7.4, and 0.1% azide
2-ab	Anti-rabbit IgG-HRP cat # 20320 (AP, biotin, FITC conjugates also available)
-ve control IgG	# 20009-1, Rabbit (non-immune) IgG, purified, suitable for ELISA, Western, IHC as –ve control

Form & Storage of Antibodies/Peptide Control

Soy IgG

□ solution □ lyophilized powder
contains 0.05% sodium azide
Reconstitute powder in water

Storage

Short-term: unopened, undiluted vials for less than a week at 4oC.

Long-term: at –20C or below in suitable aliquots after reconstitution. Do not freeze and thaw and store working, diluted solutions.

Stability: 6-12 months at –20oC or below.
Shipping: 4oC for solutions and room temp for powder.

Recommended Usage

ELISA: Soy protein acetone powder extracts can be used to coat ELISA plates and detected with Soy antibodies (1:500-1:2000 dilution).

Western Blotting 1:500-1:2000.

Specificity & Cross-reactivity

This antibody reacts with soy protein hot urea extracts. No significant reactivity with ovalbumin, maize, potato, or rice flour extracts.

General References: Dillingham BL (2005) J. Nutrition 135, 584-591; Goodin S (2007) Cancer Epidemiol. Biomarkers Prev, 16, 829-833; Anderson JW (1995) New Eng. J. Med. 333, 276-282; http://en.wikipedia.org/wiki/Soy_protein;

*This product is for In vitro research use only.

Related material available from ADI

Catalog#	ProdDescription
GLTN11-S	Anti-Wheat Gluten antiserum
SP-89074-5	Gluten Exorphin A5 (AA: Gly-Tyr-Tyr-Pro-Thr)
SP-89075-5	Gluten Exorphin B5 (AA: Tyr-Gly-Gly-Trp-Leu)
SP-89076-5	Gluten Exorphin C (AA: Tyr-Pro-Ile-Ser-Leu)
3300-310-GLA	Human Anti-Gliadin IgA ELISA kit, 96 tests,
GLDN11-S	Anti-Wheat Gliadin antiserum
SP-88514-5	Gliadin (43-49)(Gliadorphin) Alpha
3300-305-GLM	Human Anti-Gliadin IgM ELISA kit, 96 tests,
3300-300-GLG	Human Anti-Gliadin IgG ELISA kit, 96 tests,
GLDN15-N-1	Wheat Gliadin
SP-58780-1	α-Gliadin (57–73)]
SP-89924-1	α-Gliadin (57–89)
OVA11-A	Anti-chicken Egg Ovalbumin (OVA) IgG
OVA11-S	Anti-chicken Egg Ovalbumin IgG
OVA12-R	Chicken Egg Ovalbumin purified protein
OVA13-M	Monoclonal Anti-chicken Egg Ovalbumin ascites (IgG1)
OVA14-S	Mouse polyclonal Anti-chicken Egg Ovalbumin Antiserum (IgA+G+M+E)
OVA15-N-1000	Chicken egg ovalbumin protein (ELISA, antigen, allergy grade)

SOY11-S-Anti-Soy Protein IgG 150515SV

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