Product no AS09 566
Peanut protein

Product information

Background | Peanut (*Arachis hypogaea*) belongs to the legume family. Dietary substances from peanuts can be a cause of allergi reaction in estimated 0.4-0.6% of population.

Immunogen | *Arachis hypogaea* protein extract

Host | Chicken

Clonality | Polyclonal

Purity | Affinity purified IgY

Format | Liquid

Quantity | 100 µg

Storage | Store at 4°C; make aliquots to avoid working with a stock. Please, remember to spin tubes briefly prior to opening them to avoid any losses that might occur from liquid material adhering to the cap or sides of the tubes.

Tested applications

- ELISA (ELISA), Western blot (WB)

Related products

- AS15 2848 | Anti-Peanut Agglutinin, mouse monoclonal antibodies
- AS16 3977 | Anti-Peanut Ara h1, clone 17, rabbit antibodies

Additional information

- Antibodies were purified on immobilized peanut proteins.

Application information

Recommended dilution | 2-5 µg/ml (ELISA), 0.1-1 µg/ml (WB)

Confirmed reactivity | Peanut proteins

Predicted reactivity | Peanut proteins

Not reactive in | No confirmed exceptions from predicted reactivity are currently known.

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Thirty (30) µg of total protein extracted freshly from defatted lightly roasted peanut flour with borate buffered saline (BBS) solution (100 mM H3BO4, 25 mM Na2B4O7, 75 mM NaCl, and pH 8.6) for 1 hr with constant stirring at 4 °C. Samples were denatured with NuPAGE™ LDS sample buffer containing 50 mM DTT at a 1:4 (v/v) ratio and incubation at 70 °C for 5 min. Samples were separated on Novex™ 10-20% Tricine Protein Gels and blotted 7 minutes to nitrocellulose using iBlot dry transfer system. The blot was blocked with 5% milk for 1hr/RT with agitation. The blot was rinsed briefly, then washed 3 times for 5 min in TBS-T at RT with agitation. The blot was incubated in Agrisera matching secondary antibody (anti-rabbit IgG horse radish peroxidase conjugated AS10 1489) diluted to 1:25,000 in TBS-T for 1hr/RT with agitation. The blot was washed as above and developed for 5 min with AgriseraECL Bright. Images of the blots were collected using a CCD imager and Quantity One.
software (Bio-Rad). Exposure time was 20 seconds.