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Product no AS11 1627

Anti-RBR1 | Retinoblastoma related protein

Product information

Immunogen	Recombinant C-terminal fragment consisting of 236 amino acids of *Arabidopsis thaliana* retinoblastoma protein UniProt: Q9LKZ3, ITAIR: At3g12280
Host	Chicken
Clonality	Polyclonal
Purity	Purified, total IgY (chicken egg yolk immunoglobulin) in PBS pH 8. Contains 0.02 % sodium azide.
Format	Liquid
Quantity	50 µl
Storage	Store at 4°C. Upon arrival Please remember to spin the tubes briefly prior to opening them to avoid any losses that might occur from material adhering to the cap or sides of the tube.
Additional information	Total IgY concentration is 30.8 mg/ml

Application information

Recommended dilution	2 µl (IP), 1 : 2000 (WB)
Expected | apparent MW	112 kDa
Confirmed reactivity	*Arabidopsis thaliana, Medicago sativa*
Predicted reactivity	*Camelia sinensis, Chenopodium rubrum, Cocos nucifera, Hordeum vulgare, Oryza sativa, Pisum sativum, Populus tremula, Scutelaria baicalensis, Zea mays* Species of your interest not listed? Contact us
Not reactive in	*Chlamydomonas reinhardtii*
Additional information	This antibody is not suitable for immunolocalization. Methanol concentration in a transfer buffer can be considerably reduced or for a better transfer of high MW proteins (even with PVDF membrane). For immunoprecipitation start with 2 µl and titrate it depending upon your experimental conditions. Please note that you work with a total IgY fraction, which means that it will contain between 40-60 µg of total IgY (directed not only against retinoblastoma) therefore all of this IgY needs to be captured by the anti-IgY matrix. As control pre-serum for IP this product can be used, total, pre-immune IgY.
Selected references	Leviczky et al. (2019). E2FA and E2FB transcription factors coordinate cell proliferation with seed maturation. Development. 2019 Nov 26;146(22). pii: dev179333. doi: 10.1242/dev.179333. Horvath et al. (2017). Arabidopsis RETINOBLASTOMA RELATED directly regulates DNA damage responses through functions beyond cell cycle control. EMBO J. 2017 May 2;36(9):1261-1278. doi: 10.15252/embj.201694561. Epub 2017 Mar 20. Cheng et al. (2013). Down-regulation of multiple CDK inhibitor ICK/KRP genes up-regulates E2F pathway and increases cell proliferation, organ and seed sizes in Arabidopsis. Plant j. May 7. Ábrahám et al. (2011). Immunodetection of retinoblastoma-related protein and its phosphorylated form in interphase and mitotic alfalfa cells. J Exp Bot 62(6):2155-2168.

Application example

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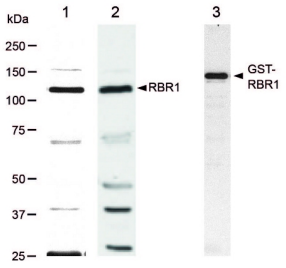

35 µg of total proteins from *Arabidopsis thaliana* Col-0 cell suspension culture (1) or one week old seedlings (2) as well as 3.5ng of purified GST-RBR1 fusion protein (3) were separated on 8% Laemmli SDS polyacrylamide gels and blotted onto PVDF membrane overnight. Filters were blocked in 5% milk powder in TBS-0.05% Tween 20 (TBS-T) for 2 hours then probed with anti-RBR1 antibody (1:6000, 2 hours at RT) and HRP-conjugated rabbit anti-chicken IgY secondary antibody (1: 20000, 1 hour at RT) in TBS-T containing 5% milk powder. After each antibody incubation steps filters were washed with TBS-T, TBS-T containing 2% milk powder, TBS-T for 10 min each on a rocking platform. Signal was developed with chemiluminescent detection reagent of extreme low femtogram range and visualized by exposing to a film (Agfa Cronex 5) for 5 min.

Courtesy Dr. Laszlo Bako, Umeå Plant Science Center, Sweden