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Product no **AS12 2119** **14-3-3 GRF | General regulatory element**

Product information

Background	GRF (General regulatory factor 2) or 14.3.3's are 30KDa proteins involved in protein interactions with target proteins containing phosphorylated target sites. Functions of 14.3.3's include acting as adaptors or scaffolds, stimulating protein-protein interaction, altering target protein activity, causing conformational changes of target proteins, regulating subcellular localisation and also facilitating transport (for example nuclear import/export and transport in the endomembrane system). A variety of apparently unrelated biological activities, including a role in development and signal transduction - brassinosteroid mediated signaling pathway.
Immunogen	Conserved surface-exposed peptide conjugated to KLH . This sequence is repeated in all 12 "canonical" members of the <i>Arabidopsis thaliana</i> GRF/14-3-3 family. GRF1 GF14 chi UniProt: F4JJ94 , TAIR: AT4G09000 , GRF2 GF14 omega, UniProt: Q01525 , TAIR: AT1G78300 , GRF3 GF14 psi UniProt: F4KBI7 , TAIR: AT5G38480 , GRF4 GF14 phi UniProt: F4HWQ5 , TAIR: AT1G35160 , GRF5 GF14 upsilon UniProt: P42645 , TAIR: AT5G16050 , GRF6 GF14 lambda UniProt: P48349#P48349-2 , TAIR: AT5G10450 , GRF7 GF14 nu UniProt: Q96300 , TAIR: AT3G02520 , GRF8 GF14 kappa UniProt: F4KHY7 , TAIR: AT5G65430 , GRF9 GF14 mu UniProt: F4IP55 , TAIR: AT2G42590 , GRF10 GF14 epsilon UniProt: F411C1 , TAIR: AT1G22300 , GRF11 GF14 omicron UniProt: Q9S9Z8 , TAIR: AT1G34760 , GRF12 GF14 iota UniProt: Q9C5W6 TAIR: AT1G26480 .
Host	Rabbit
Clonality	Polyclonal
Purity	Serum
Format	Lyophilized
Quantity	50 µl
Reconstitution	For reconstitution add 50 µl of sterile water.
Storage	Store lyophilized/reconstituted at -20 °C; once reconstituted make aliquots to avoid repeated freeze-thaw cycles. Please, remember to spin tubes briefly prior to opening them to avoid any losses that might occur from lyophilized material adhering to the cap or sides of the tubes.
Tested applications	Western Blot (WB)
Related products	AS08 317 14.3.3C 14.3.3-like protein C, rabbit antibody specific to <i>Hordeum vulgare</i> Collection of antibodies to proteins involved in signal transduction
Additional information	This antibody is recognizing recombinant GRF of <i>Lilium longiflorum</i> Lil1433_0 accession: AF191746, Lil1433_2, accession: EF397608 and recombinant GRF1,2,3,5 and 6 of <i>Arabidopsis thaliana</i> : GRF1 14-3-3 chi (At4g09000.1), GRF2 14-3-3 omega (At1g78300.1), GRF3 14-3-3 psi (At5g38480.1), GRF5 14-3-3 upsilon (At5g16050.1), GRF6 14-3-3 lambda (At5g10450.2), GRF8 14-3-3 kappa (At5g65430.1), GRF11 14-3-3 omicron (At1g34760.1). There is also very weak reaction to <i>Physcomitrella patens</i> Pp14-3-3 Pp1s 73_133V6 (closest homolog to AtGRF6) and <i>Chlamydomonas reinhardtii</i> Cr 14-3-3 Cre 12.g559250 (closest homolog to AtGRF6).

Application information

Recommended dilution	1: 2000 (WB)
Expected apparent MW	20-28 kDa (depending upon an isoform)
Confirmed reactivity	<i>Aesculus hippocastanum</i> , <i>Arabidopsis halleri</i> , <i>Arabidopsis thaliana</i> , <i>Lilium longiflorum</i> , <i>Mesembryanthemum crystallinum</i> , <i>Neochloris oloabundans</i> (algae), <i>Oryza sativa</i> , <i>Phaseolus vulgaris</i> , <i>Panax notoginseng</i> , <i>Zea mays</i> , <i>Vicia faba</i>

