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Product no AS10 718

HTA9 | Probable histone H2A variant 3

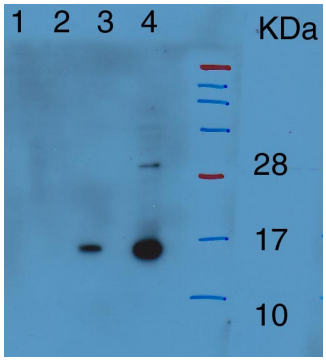
Product information

Immunogen	KLH-conjugated synthetic peptide derived from *Arabidopsis thaliana* HTA9 UniProt: Q9C944, TAIR: At1g52740
Host	Rabbit
Clonality	Polyclonal
Purity	Immunogen affinity purified serum in PBS pH 7.4.
Format	Lyophilized
Quantity	50 µg
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 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.

Application information

Recommended dilution	6 µg (ChIP), 1: 100 (IP), 1 : 1000 (WB)
Expected | apparent MW	14.2 kDa (*Arabidopsis thaliana*)
Confirmed reactivity	*Arabidopsis thaliana*
Not reactive in	*Nicotiana tabacum*
Selected references	Bieluszewski et al. (2022) NuA4 and H2A.Z control environmental responses and autotrophic growth in Arabidopsis. Nat Commun. 2022 Jan 12;13(1):277. doi: 10.1038/s41467-021-27882-5. PMID: 35022409; PMCID: PMC8755797. Bieluszewski et al. (2022) NuA4 and H2A.Z control environmental responses and autotrophic growth in Arabidopsis. Nat Commun. 2022 Jan 12;13(1):277. doi: 10.1038/s41467-021-27882-5. PMID: 35022409; PMCID: PMC8755797. Kralemann et al. (2020). Removal of H2Aub1 by ubiquitin-specific proteases 12 and 13 is required for stable Polycomb-mediated gene repression in Arabidopsis. Genome Biol. 2020 Jun 16;21(1):144.doi: 10.1186/s13059-020-02062-8. Gómez-Zambrano et al. (2019). The repressive role of Arabidopsis H2A.Z in transcriptional regulation depends on AtBMI1 activity. Nat Commun. 2019 Jun 27;10(1):2828. doi: 10.1038/s41467-019-10773-1. Gómez-Zambrano et al. (2018). Arabidopsis SWC4 Binds DNA and Recruits the SWR1 Complex to Modulate Histone H2A.Z Deposition at Key Regulatory Genes. Mol Plant. 2018 Mar 29. pii: S1674-2052(18)30122-9. doi: 10.1016/j.molp.2018.03.014.

Application example



1) *hta9*, *hta11* double mutant, about 1 ug protein; **2)** mutant *hta9*, *hta11* about 2 ug protein; **3)** wild-type about 2-3 ug protein; **4)** wild-type about 4-5 ug protein from *Arabidopsis thaliana*.
Protein from Arabidopsis histone preparation (acid extracted, precipitated with acetone and resuspended in urea). Denatured with SDS-PAGE buffer at 90C for 2 min, separated on 15% SDS-PAGE and blotted 1h to PVDF tank transfer. Blots were blocked with PBS + 3% BSA overnight at 4C with agitation. Blot was incubated in the primary antibody at a dilution of 1:1 000 in PBS + 3% BSA for 1h at RT with agitation. The antibody solution was decanted and the blot was rinsed once with PBS-T for 5 min. Blot was incubated in secondary antibody PBS + 3% BSA (anti-rabbit IgG horse radish peroxidase conjugated, from Agrisera, AS09 602) diluted to 1:25 000 for 1h at RT with agitation. The blot was washed 3-4 times with PBS-T for 5 min. The blot was developed with Immobilion (Millipore) and exposed on an X-ray film for 1 min.