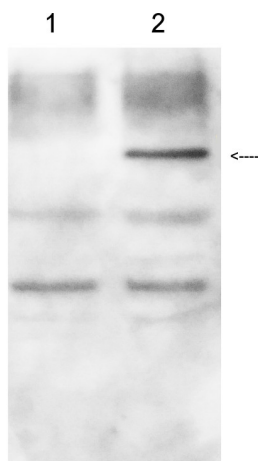


Product no **AS16 3689****Anti-GUS | Beta-glucuronidase****Product information**

Immunogen	KLH -conjugated synthetic peptide derived from <i>Escherichia coli</i> GUS protein at amino acid 358.
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 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	This antibody will not work with pCAMBIA vectors due to mutation starting at amino acid position 358

Application information

Recommended dilution	1 : 10 000 (WB)
Expected apparent MW	depends upon a MW of a protein which is expressed with GUS
Confirmed reactivity	GUS
Not reactive in	No confirmed exceptions from predicted reactivity are currently known
Selected references	<p><u>Matsushima and Matsuo</u> (2023). Removal of plant endogenous proteins from tobacco leaf extract by freeze–thaw treatment for purification of recombinant proteins. Plant Sci. 2023 Dec 10:339:111953.doi: 10.1016/j.plantsci.2023.111953.</p> <p><u>Xiumei</u> et al. (2022) Pathogenesis-related protein 1 suppresses oomycete pathogen by targeting against AMPK kinase complex, Journal of Advanced Research, 2022, ISSN 2090-1232, https://doi.org/10.1016/j.jare.2022.02.002.</p> <p><u>Xiao</u> et al. (2022) An amino acid transporter-like protein (OsATL15) facilitates the systematic distribution of thiamethoxam in rice for controlling the brown planthopper. Plant Biotechnol J. 2022 Jun 9. doi: 10.1111/pbi.13869. Epub ahead of print. PMID: 35678495. (Immunolocalization)</p> <p><u>Nizkorodova</u> et al. (2020). The Effect of Translation Promoting Site (TPS) on Protein Expression in E. coli Cells. Mol Biotechnol (2020). doi.org/10.1007/s12033-020-00251-1</p> <p><u>Nizkorodova</u> and Isakov (2019). New insights into the mechanism of action of e-element enhancer in E.coli. Eurasian Journal of Applied Biotechnology 2/2019</p>

Application example

100 µg of total protein from *Arabidopsis thaliana* wild-type **(1)** and transgenic plants expressing GUS under HRT promoter **(2)** were extracted with lysis buffer containing 50 mM Tris-HCl pH 7.5, 150 mM NaCl, 10 mM MgCl₂, 5 mM EDTA, 10% glycerol, 0.1% NP-40, 0.1% protease inhibitor cocktail. The proteins were denatured by boiling for 5 min, were separated on 10% SDS-PAGE and blotted 30 min to PVDF using tank transfer. Blots were blocked with TBST containing 5% non-fat dry milk for 1 h at room temperature (RT) with agitation. Blot was incubated in the primary antibody at a dilution of 1:10 000 for 2 h at RT with agitation in TBS-T. The antibody solution was decanted and the blot was rinsed briefly twice, then washed 3 times for 15 min each in TBS-T at RT with agitation. Blot was incubated in secondary antibody (anti-rabbit IgG horse radish peroxidase conjugated) diluted to 1:10 000 in for 1 h at RT with agitation. The blot was washed as above and developed with Clarity MAX (Bio-RAD). Exposure time was 10 seconds.

Courtesy of Dr. Pradeep Kachroo, University of Kentucky, USA