

Product no **AS10 683-25****HDEL | Endoplasmic reticulum retention signal (clone 2E7)****Product information**

<b>Immunogen</b>	synthetic HDEL peptide corresponding to the C-terminus of yeast Bip
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal
<b>Subclass/isotype</b>	IgG2B
<b>Purity</b>	Total IgG. Protein G purified in PBS pH 7.4.
<b>Format</b>	Liquid
<b>Quantity</b>	25 µg
<b>Storage</b>	Store at -20 °C for 1 year; 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.
<b>Additional information</b>	Protein G purified IgG2B in PBS, pH 7,4 with 0,09 % sodium azide and 50 % glycerol at concentration 1 mg/ml

**Application information**

<b>Recommended dilution</b>	1, 50-1 : 500 (IF), 1 : 100-1, 1000 (WB)
<b>Expected   apparent MW</b>	78 kDa
<b>Confirmed reactivity</b>	<i>Barnyard Grass (E. crus-galli), Beta vulgaris, Drosophila melanogaster, Gossypium hirsutum, Hordeum vulgare, Oryza sativa, Saccharomyces cerevisiae, Sorghum sp., Vigna radiata</i>
<b>Predicted reactivity</b>	Higher plants
<b>Not reactive in</b>	No confirmed exceptions from predicted reactivity are currently known
<b>Additional information</b>	Antibody in concentration 1 µg/ml was sufficient for detection of HDEL-containing proteins in 10 µg of yeast cell lysate by colorimetric western blot. Clone 2E7.  For western blot results, immunofluorescence and immunogold images please refer to Napier et al. 1992.
<b>Selected references</b>	<a href="#">Wang et al. (2023)</a> . OsCPK12 phosphorylates OsCATA and OsCATC to regulate H <sub>2</sub> O <sub>2</sub> homeostasis and improve oxidative tolerance in rice. <i>Plant Commun.</i> 2023 Dec 21:100780.doi: 10.1016/j.xplc.2023.100780. <a href="#">Ming-fang et al. (2021)</a> Improved quantification of immune-gold labeling and its use to compare the distribution of cellular factors among sub-chloroplast compartments. <i>Micron</i> , 2021, 103060, ISSN 0968-4328, <a href="https://doi.org/10.1016/j.micron.2021.103060">https://doi.org/10.1016/j.micron.2021.103060</a> . <a href="#">Luo et al. (2006)</a> . GRP78/BiP is required for cell proliferation and protecting the inner cell mass from apoptosis during early mouse embryonic development. <i>Mol Cell Biol.</i> 26(15): 5688-5697. <a href="#">Napier et al. (1992)</a> . Immunological evidence that plants use both HDEL and KDEL for targeting proteins to the endoplasmic reticulum. <i>J Cell Sci.</i> 102: 261-271.