

product **AS10 683-25**

HDEL | endoplasmic reticulum retention signal (25 µg)

product information

background	HDEL (his-asp-glu-leu) is a C-terminal tripeptide found in yeast and plants which allows sorting of resident soluble proteins in the lumen of the endoplasmic reticulum.
immunogen	synthetic HDEL peptide corresponding to the C-terminus of yeast Bip
antibody format	mouse monoclonal IgG2B (clone 2E7) liquid
quantity	25 µg
storage	store at -20°C for 1 year; 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), immunofluorescence (IF), immunogold (IG)
additional information	protein G purified IgG2B in PBS, pH 7.4 with 0.09 % sodium azide and 50 % glycerol at concentration 1 mg/ml

application information

recommended dilution	1: 100 - 1: 1000 (WB), 1: 50- 1: 500 (IF)
expected apparent MW	78 kDa
confirmed reactivity	<i>Barnyard Grass</i> (E. crus-galli), <i>B. vulgaris</i> , <i>G. hirsutum</i> , <i>H. vulgare</i> , <i>Sorghum sp.</i> , <i>V. radiata</i> , <i>S. cerevisiae</i> , <i>D. melanogaster</i>
predicted reactivity	not analyzed
not reactive in	no confirmed exceptions from predicted reactivity known in the moment
additional information	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
selected references	<u>Luo</u> et al. (2006). 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. <u>Napier</u> et al. (1992). Immunological evidence that plants use both HDEL and KDEL for targeting proteins to the endoplasmic reticulum. <i>J Cell Sci.</i> 102: 261-271.

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Antibodies for research

This product is **for research use only** (not for diagnostic or therapeutic use)

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