COSMO BIO CO., LTD.
Inspiration for Life Science

Agrisera
Antibodies for research

product **AS06 196**

Fer2 | ferritin 2

product information

background	**Ferritin** is the major iron storage protein complex in eukaryotic cells, consisting of 24 ferritin subunit polypeptides. In *Chlamydomonas reinhardtii* 2 isoforms, ferritin1 (Fer1) and ferritin2 (**Fer2**) are present. Both are plastid localized but Fer1 is quantitatively recovered in soluble extracts of cells while Fer2 is found in the particulate fraction. Partial purification of the Fer1 complex indicates that the two ferritins are associated in distinct complexes and do not coassemble. The ratio of Fer1 to Fer2 in iron-replete cells is 70:1 and indicates a more dominant role of Fer1 in iron homeostasis.
immunogen	KLH-conjugated synthetic peptide derived from Fer2 protein sequence (A8WCT5) from *Chlamydomonas reinhardtii*
antibody format	rabbit, polyclonal serum, lyophilized
quantity	200 µl - for reconstitution add 200 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)
additional information	to be added when available

application information

recommended dilution	1 : 1000
expected | apparent MW	32 (with transitpeptide) | 16 (monomer) and ~60 (trimer) for *Chlamydomonas reinhardtii*
confirmed reactivity	*Chlamydomonas reinhardtii*
predicted reactivity	*Chlamydomonas reinhardtii*
not reactive in	no confirmed exceptions from predicted reactivity known in the moment
additional information	a picture with a western blot application example can be found in the reference given below
selected references	Long et al. (2008) Genetics 179: 137-147

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