

product **AS13 2731**

**FBA | Fructose-bisphosphate aldolase class 2**

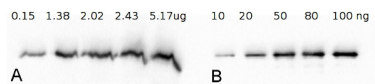
### product information

<b>background</b>	<b>FBP aldolase (FBP)</b> is an enzyme (EC=4.1.2.13) which is catalyzing the aldol condensation of dihydroxyacetone phosphate (DHAP or glyceralone-phosphate) with glyceraldehyde 3-phosphate (G3P) to form fructose 1,6-bisphosphate (FBP) in gluconeogenesis and the reverse reaction in glycolysis. It belongs to class II fructose-bisphosphate aldolase family. Alternative names: FBPA, fructose-1,6-bisphosphate aldolase, fructose-bisphosphate aldolase class II.
<b>immunogen</b>	recombinant FBA from <i>Synechocystis</i> sp. PCC6803, UniProt: <a href="#">Q55664</a> , Cyanobase: <a href="#">sll0018</a>
<b>antibody format</b>	rabbit polyclonal serum lyophilized
<b>quantity</b>	50 µl for reconstitution add 50 µl, of sterile water.
<b>storage</b>	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.
<b>tested applications</b>	western blot (WB)
<b>related products</b>	<a href="#">AS08 294</a>   ALD   fructose-1,6 bisphosphate aldolase, rabbit antibodies <a href="#">collection of antibodies to proteins involved in carbohydrate metabolism</a>
<b>additional information</b>	This antibody can be used as a marker of cytoplasmic fraction in cyanobacteria.

### application information

<b>recommended dilution</b>	1 : 1000 with standard ECL (WB)
<b>expected   apparent MW</b>	38.9 kDa
<b>confirmed reactivity</b>	<i>Synechocystis</i> PCC6803
<b>predicted reactivity</b>	cyanobacteria
<b>not reactive in</b>	no confirmed exceptions from predicted reactivity are currently known
<b>additional information</b>	
<b>selected references</b>	to be added when available, antibody released in November 2013.

## application example



**From 0.15 to 5.17 µg of total protein** from *Synechocystis* PCC6803 **(A)** extracted with SDS-sample buffer and respective amounts of recombinant FBA **(B)** were separated on 15 % SDS-PAGE and blotted 1h to PVDF. Blots were blocked with 5 % milk powder in TBS-T for 30 min. at room temperature (RT) with agitation. Blot was incubated in the primary antibody at a dilution of 1: 1 000 for 1h at RT with agitation. The antibody solution was decanted and the blot was rinsed briefly twice, then washed 3 times for 7 min 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 1h at RT with agitation. The blot was washed as above and developed for 2 min with ECL according to the manufacturer's instructions. Exposure time was seconds.

Courtesy of Yichen Zhang, Department of Biochemistry and Molecular Biology, University of Massachusetts, USA