



	<b>Experiment title:</b> Block Allocation Group Italy (BAG)	<b>Experiment number:</b> LS-1933
<b>Beamline:</b> ID14-1	<b>Date of experiment:</b> from: 1/12/2001                      to: 3/12/2001	<b>Date of report:</b> 4/9/2002
<b>Shifts:</b> 6	<b>Local contact(s):</b> Dr Joanne MCCARTHY (e-mail: mccarthy@esrf.fr)	<i>Received at ESRF:</i>
<b>Names and affiliations of applicants (* indicates experimentalists):</b> Kristina Djinovic Carugo* Maurizio Polentarutti* Imre Toeroe*  Structural Biology Laboratory ELETTRA - Sincrotrone Trieste in Area Science Park S.S. 14 Km 163,5 loc. Basovizza 34012 Trieste Italy		

## Report:

FAP52 is a recently described focal adhesion-associated protein. It is a member of an emerging PCH (*pombe Cdc15* homology) family of proteins characterized by a common domain organization and involvement in actin cytoskeleton organization, cytokinesis, and vesicular trafficking. More recently, two homologues of FAP52, PASCIN2 and syndapin II, were identified. They all share a modular structure typified by a well conserved FER-CIP4 homology domain in the very N terminus, followed by a highly alpha-helical region, and a C-terminal Src homology 3 (SH3) domain.

We have grown crystals of FAP52 in two crystal forms and performed data-collection experiments on native crystals of both forms as well as on a mercury derivative.

Table 1.: Summary of data collection statistics on FAP52 (1/12/2001, beamline ID14-1)

**Native**

Space group	P2 <sub>1</sub> 2 <sub>1</sub> 2 <sub>1</sub>
Unit cell (Å)	a=101.0 b=105.5 c=125.8
Resolution (Å)	2.8
No. observed reflections	120452
No. unique	32766
Completeness (%)	96.9
Mosaicity (deg)	0.45
Rsym (%)	8.0

**Native**

Space group	C2
Unit cell (Å)	a=162.3 b=101.0 c=106.6 beta=130.6
Resolution (Å)	2.65
No. observed reflections	52989
No. unique	35050
Completeness (%)	92
Mosaicity (deg)	0.55
Rsym (%)	6.9

**EMP soak**

Space group	P2 <sub>1</sub> 2 <sub>1</sub> 2 <sub>1</sub>
Unit cell (Å)	a=102.9 b=104.7 c=125.7
Resolution (Å)	3.2
No. observed reflections	81233
No. unique	43124 (Friedel's law FALSE)
Completeness (%)	94
Mosaicity (deg)	0.6
Rsym (%)	8.6