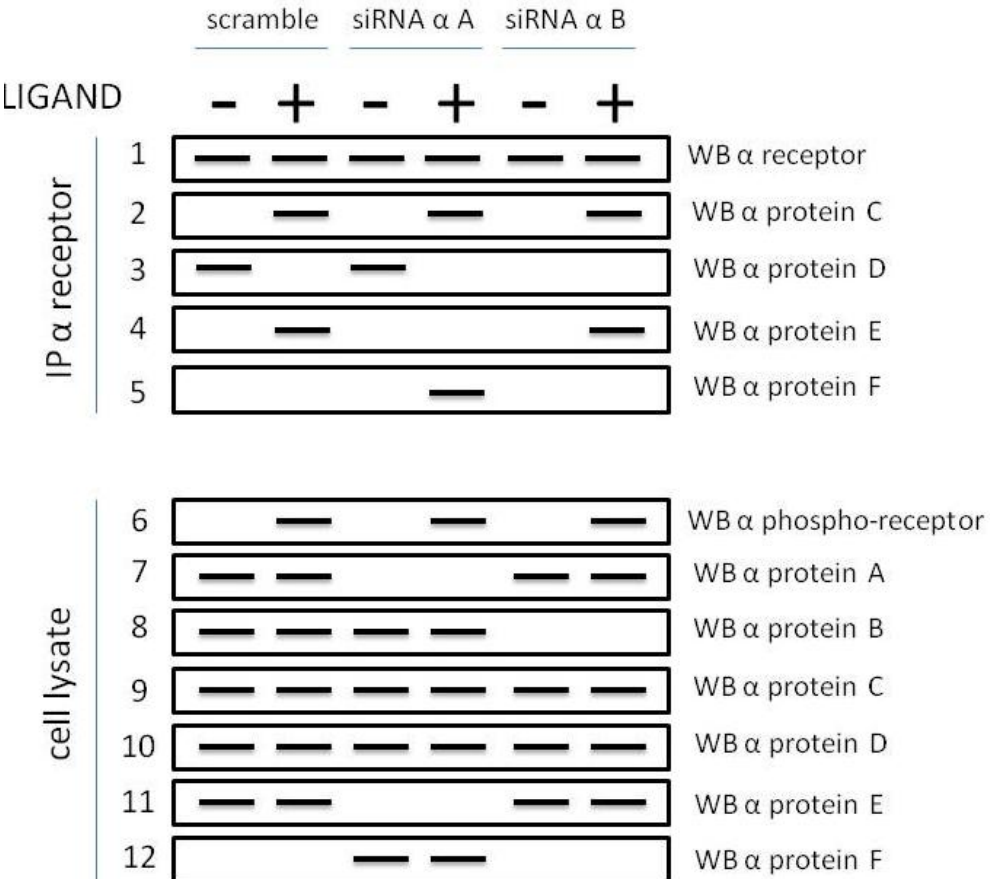
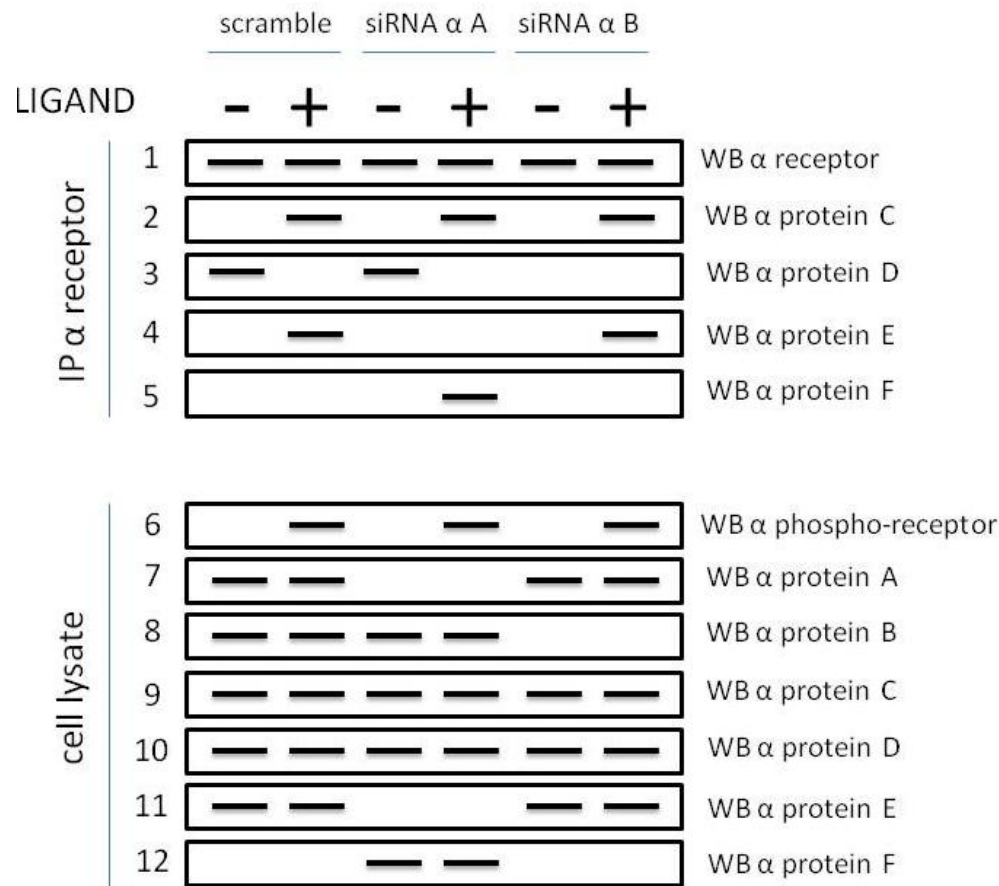


Cells were transiently transfected with scramble siRNA (negative control), or siRNA against protein A or siRNA against protein B. Then, cells were treated (+) or not (-) with the ligand for 15 minutes. Cells were lysated to extract total proteins, then an immunoprecipitation (IP) for the receptor was carried out (an aliquote was saved for cell lysate analysis). IP and cell lysate were analysed by SDS-PAGE and western blot analysis (WB) for different proteins.

Please, write a **short** sentence for each protein (C, D, E, F) describing: **if** and **when** it is expressed, **if** and **when** it interacts with the receptor and, if so, if the interaction is **positively** or **negatively** affected by the presence of other proteins.



		82161	90360	87324	80324	89926	81939	84873	82018	88549	90897	82065	9049	90048	78911	88010	90614
		5	3	6	0	5	1	4	7	9	3	3	27	2	4	1	1
C	it is expressed everytime (its expression is not affected by A or B)	1	1		1			1	1				1		1	1	1
	interacts when the ligand is present		1	1	1				1	1	1	1		1	1	1	
	interaction is not affected by A and B	1	1	1	1				1		1	1		1	1	1	
D	it is expressed everytime (its expression is not affected by A or B)		1		1			1	1				1	1	1	1	
	interacts when the ligand is missing		1		1				1		1	1		1	1	1	
	the binding needs B (it is not affected by A)		1	1	1				1	1	1	1		1	1	1	
E	its expression needs the presence of A		1	1	1			1	1	1	1	1		1	1	1	
	it binds the receptor when the ligand is present	1	1	1	1				1		1	1		1	1	1	
F	its expression is inhibited by protein A	1	1	1	1		1		1		1				1	1	
	it binds the receptor when the ligand is present			1	1				1	1	1	1		1	1	1	
	total	4	9	7	10	0	1	3	10	4	8	7	2	8	10	10	1
	total * 0,4	1,6	3,6	2,8	4	?	0,4	1,2	4	1,6	3,2	2,8	0,8	3,2	4	4	0,4



Please, find here a correct answer:

- Protein C is always expressed. It interacts with the receptor when the ligand is present. Proteins A and B do not affect this interaction.
- Protein D is always expressed. It interacts with the receptor when the ligand is not present. The presence of protein B positively affects this interaction (which is inhibited if B is silenced).
- Protein E is not expressed when protein A is silenced. It interacts with the receptor when the ligand is present. This interaction is positively affected by the presence of protein A.
- Protein F is only expressed when protein A is silenced. When it is expressed, it interacts with the receptor only in the presence of the ligand. Thus, protein A negatively affects this interaction.