Table 1. Platelet-derived growth factor receptor (PDGFR) signaling through phospholipase Cγ (PLCγ) and phosphatidylinositol 3-kinase (PI3K) is required for mesoderm cell survival

Binding site(s)	mRNA	*n*	DMSO/AP1510	Normal, %	Dead cells, %
Wild type	*i*PDGFRα/R37	215	DMSO	30	70
	*i*PDGFRα/R37	214	AP1510	65	35
	*i*PDGFRα-F572/4/R37	49	DMSO	33	67
No Src	*i*PDGFRα-F572/4/R37	49	AP1510	55	45
	*i*PDGFRα-Y572/4/R37	41	DMSO	22	78
Only Src	*i*PDGFRαY572/4/R37	38	AP1510	21	79
	*i*PDGFRα-F720/R37	47	DMSO	38	62
No SHP-2	*i*PDGFRα-F720/R37*	46	AP1510	59	39
	*i*PDGFRα-Y720/R37*	43	DMSO	23	74
Only SHP-2	*i*PDGFRα-Y720/R37	46	AP1510	28	72
	*i*PDGFRα-F731/42/R37	45	DMSO	2	98
No PI3K	*i*PDGFRα-F731/42/R37	47	AP1510	2	98
	*i*PDGFRα-Y731/42/R37	35	DMSO	29	71
Only PI3K	*i*PDGFRα-Y731/42/R37	35	AP1510	26	74
	*i*PDGFRα-F762/R37	36	DMSO	33	67
No Crk	*i*PDGFRα-F762/R37	40	AP1510	73	28
	*i*PDGFRα-Y762/R37	27	DMSO	15	85
Only Crk	*i*PDGFRα-Y762/R37	24	AP1510	17	83
	*i*PDGFRα-F988/R37	51	DMSO	25	75
No Tyr 988	*i*PDGFRα-F988/R37	44	AP1510	23	77
	*i*PDGFRα-Y988/R37*	45	DMSO	13	84
Only Tyr 988	*i*PDGFRα-Y988/R37*	43	AP1510	9	88
	*i*PDGFRα-F1018/R37	30	DMSO	10	90
No PLCγ	*i*PDGFRα-F1018/R37	30	AP1510	13	87
	*i*PDGFRα-Y1018/R37	34	DMSO	18	82
Only PLCγ	*i*PDGFRα-Y1018/R37*	35	AP1510	17	77
	*i*PDGFRα-F720/62/R37	46	DMSO	37	63
Src, PI3K, and PLCγ	*i*PDGFRα-F720/62/R37*	49	AP1510	69	28
	*i*PDGFRα-F4/R37*	50	DMSO	24	74
PI3K and PLCγ	*i*PDGFRα-F4/R37	51	AP1510	53	47
	*i*PDGFRα	228	DMSO	100	0
Control	*i*PDGFRα*	232	AP1510	99	0

The data presented in Figs. 2-4 are shown. The percentage of embryos that do not contain apoptotic cells (i.e., cells with nonnuclear β-gal staining) is presented for embryos injected with mRNA as described for Figs. 2-4 and with DMSO or AP1510. This percentage is low for some mutants compared with wild type because there may be some basal activity of the receptor construct without the addition of dimerizer. β-gal, β-galactosidase with a nuclear localization signal; *i*PDGFR, *inducible* PDGFR.

*The remaining percentage of embryos died as a result of microinjection.