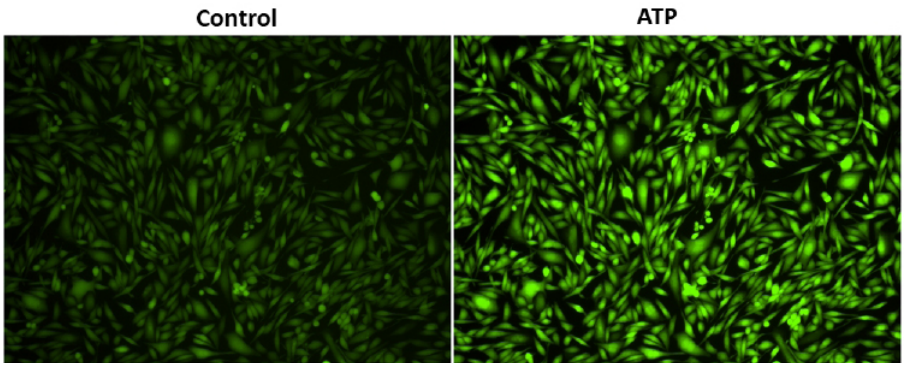
CALCIUM INDICATORS SELECTION GUIDE

Cat no.	Indicator Dye	Ex	Em	Laser	Filter	Kd
20412	Cal-500™	388	482	405	DAPI	303 nM
20650	Calbryte™ 520	493	515	488	FITC	1.2 µM
21130	Cal-520®	493	515	488	FITC	320 nM
20642	Calbryte™-520L	493	515	488	FITC	91 µM
21142	Cal-520FF™	493	515	488	FITC	9.8 µM
21146	Cal-520N™	493	515	488	FITC	90 µM
20507	OG488 BAPTA -1	493	522	488	FITC	170 nM
21080	Fluo-8®	495	516	488	FITC	389 nM
21090	Fluo-8H™	495	516	488	FITC	232 nM
21096	Fluo-8L™	495	516	488	FITC	1.9 µM
21104	Fluo-8FF™	495	516	488	FITC	10 µM
20550	Fluo-4	495	528	488	FITC	345 nM
20501	Cal Green™ 1	498	517	488	FITC	190 nM
21011	Fluo-3	506	515	488	FITC	390 nM
21120	Rhod-4™	523	551	561	TRITC	451 nM
21062	Rhod-2	553	577	561	TRITC	570 nM
21077	Rhod-FF	553	577	561	TRITC	19 µM
21070	Rhod-5N	557	580	561	TRITC	300 µM
20510	Cal-590™	574	588	561	Cy3/TRITC	561 nM
20700	Calbryte™ 590	581	593	561	Cy3/TRITC	1.4 µM
20720	Calbryte™ 630	607	624	561	Texas Red	1.2 µM
20530	Cal-630™	609	626	561	Texas Red	792 nM
20455	Cal-670™	667	680	640	Cy5	853 nM
20460	Cal-770™	758	783	750	Cy7	850 nM

* FCa/FFree = Increase in fluorescence intensity of calcium bound indicator relative to its calcium free indicator form.



◀ Response of endogenous P2Y receptor to ATP in CHO-K cells. CHO-K cells were seeded overnight at 40,000 cells per 100 µL per well in a 96-well black wall/clear bottom costar plate. 100 µl of 4 µM Cal 520™ AM (cat. no. 21130) in HHBS with 1 mM probenecid were added into the wells, and the cells were incubated at 37 °C for 1 hour. The dye loading mediums were replaced with 100 µl HHBS and 1 mM probenecid , then imaged with a fluorescence microscope (Olympus IX71) using FITC channel before and after adding 50 µl of 300 µM ATP .

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