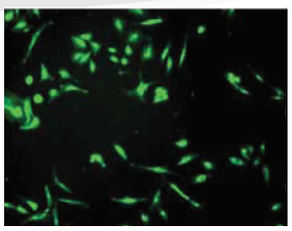
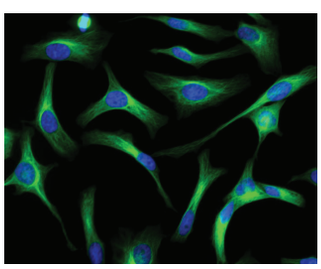
Flamma® Fluor Dyes

Strong Absorption, High Quantum Yield & Photostability

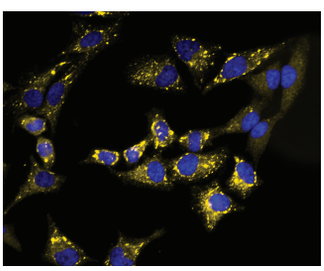
- Covering the full spectral range from UV to NIR
- Excellent fluorescence activity after conjugation
- Equipped with a variety of reactive groups
- High quantum yields and photostability
- High purity and compatible with most of biomolecules



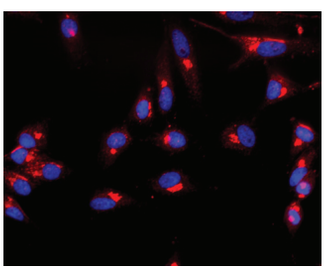
Flamma 488 Cell membrane imaging



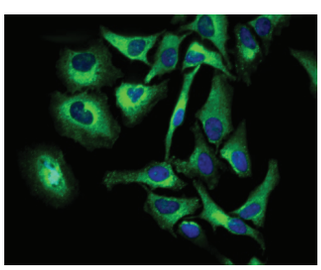
Tubulin



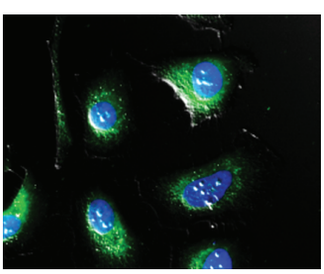
Mitochondria



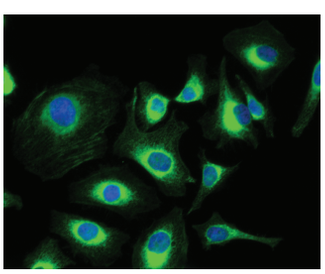
Golgi body



Autophaqosome

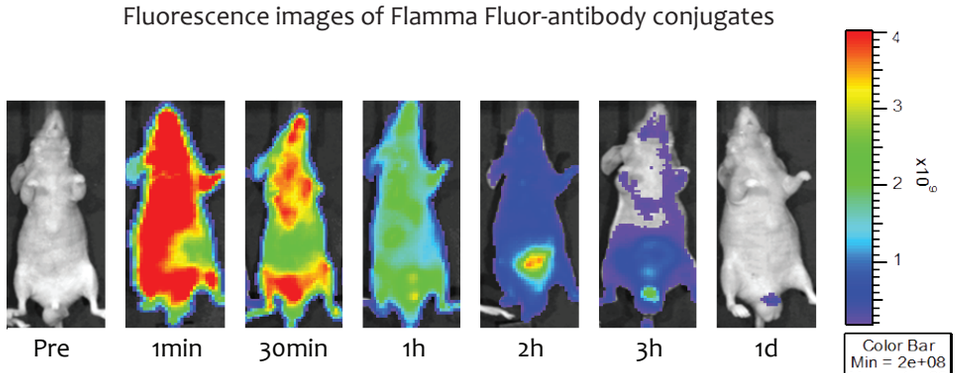


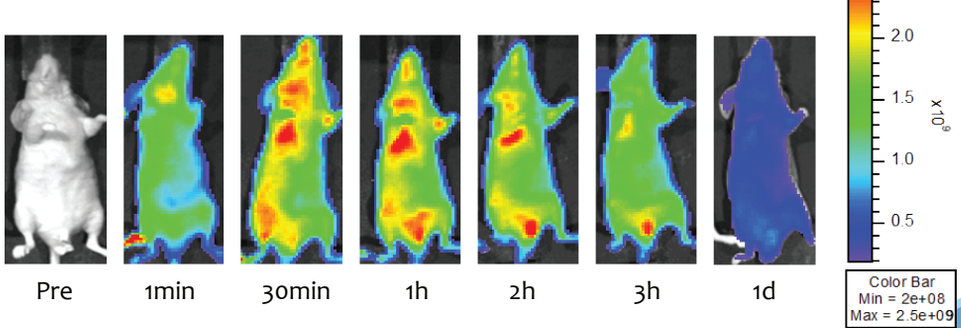
Peroxisome



Endoplasmic Reticutlum

Fluorescence images of Flamma Fluor-antibody conjugates

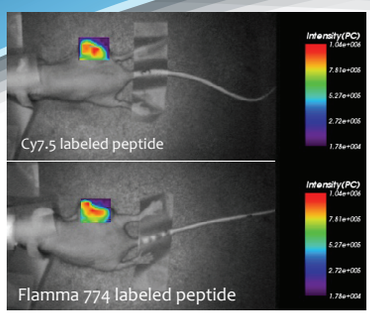




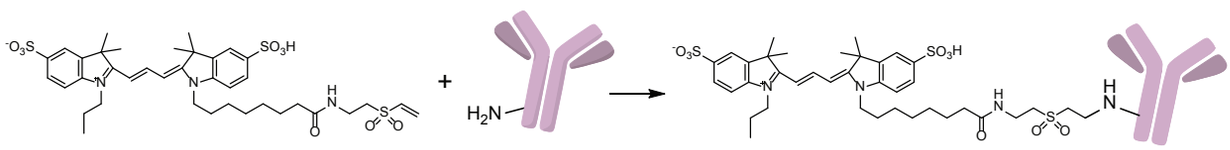
Fluorescence images of Flamma 749 (up) and
Flamma 774 (bottom) Carboxylic acid injected mouse model

Flamma® Fluor Vinylsulfone Dyes

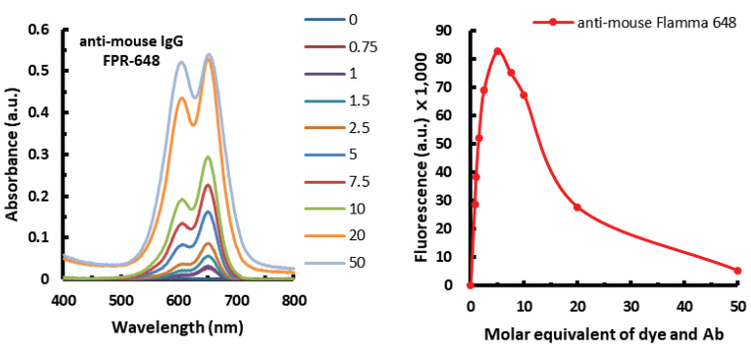
Bright Amine Reactive & pH Insensitive

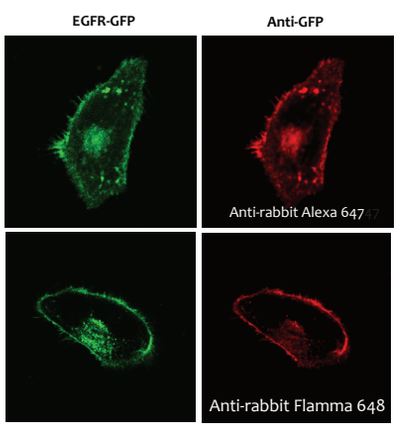


- High quantum yields and photostability
- Stable in a wide range of pH from 5 to 10
- Stable in both organic and aqueous solution
- Stable in high temperature
- Conjugated to an amine via 1,2-addition

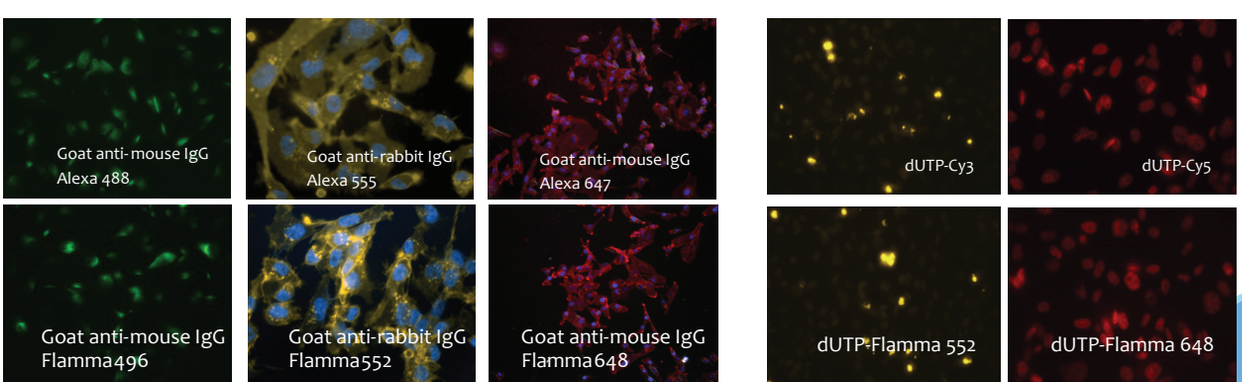


Flamma Fluors Vinylsulfones label biomolecules via 1,2-addition, thus none of by product can be generated





Excitation vs. Dye/Protein ratio of Flamma Fluors Vinylsulfone conjugated secondary antibody



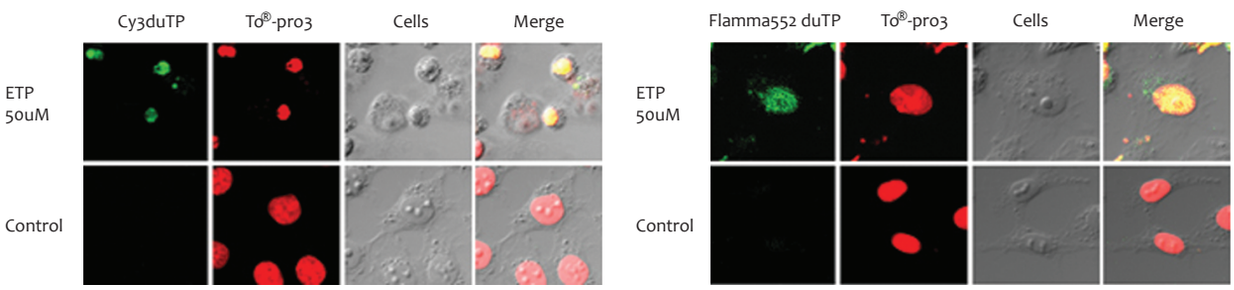
Immunofluorescent imaginings of Flamma Fluors vinylsulfone conjugated antibodies

Flamma® Fluor Vinylsulfone Dyes

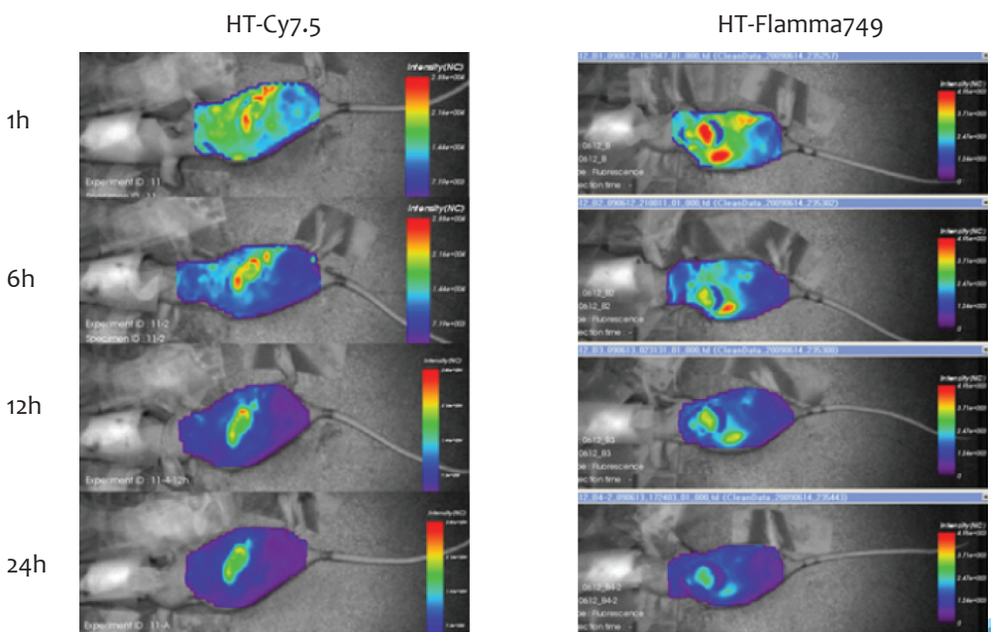
Bright Amine Reactive & pH Insensitive

Flamma Fluor vinylsulfone dye product list

Cat. No.	Product name	Emission color	Ex_{Max} (nm)	Em_{Max} (nm)	Common filter set	Excitation source
CWA1002	Flamma® 488 Vinylsulfone	Green	493	519	FITC	488 nm
CWA1001	Flamma® 496 Vinylsulfone	Green	494	520	FITC	488 nm
PWA1122	Flamma® 552 Vinylsulfone	Yellow	551	563	TRITC	488, 532 nm
KWA1024	Flamma® 560 Vinylsulfone	Orange	562	589	TRITC	532 nm
PWA1415	Flamma® 581 Vinylsulfone	Orange	578	593	TRITC	532 nm
KOA1001	Flamma® 594 Vinylsulfone	Orange	590	617	TRITC	532 nm
PWA1215	Flamma® 648 Vinylsulfone	Red	648	663	Cy5	594, 633 nm
PWA1515	Flamma® 675 Vinylsulfone	Far red	674	688	Cy5.5	633, 680 nm
PWA1308	Flamma® 749 Vinylsulfone	NIR	749	774	Cy7	680 nm
PWA1603	Flamma® 774 Vinylsulfone	NIR	775	800	Cy7.5	785 nm
POA1616	ICG Vinylsulfone	NIR	785	812	Cy7.5	785 nm



Confirmation of DNA fragment using Flamma 552 vinylsulfone/Cy3-dCTP in Apoptotic cell



Animal model NIR imaging of Flamma 749 vinylsulfone and Cy 7.5

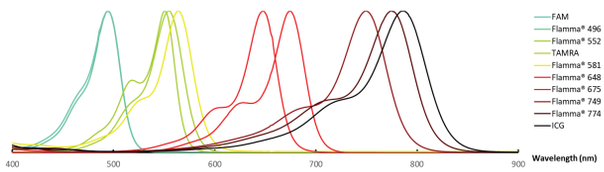
Flamma® Fluor Dyes

Strong Absorption, High quantum yield & photostability

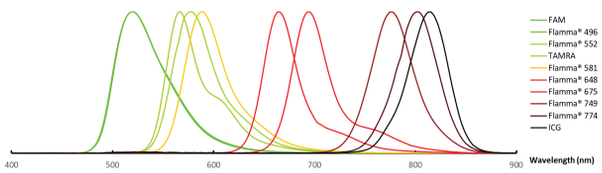
Flamma® Fluors product list

Flamma® Fluors	λ_{Ex} (nm)	λ_{Em} (nm)	Excitation Source	Spectrally Similar Dyes
FAM	494	518	488 nm	Fluorescein, FITC
Flamma® 496	496	516	488 nm	Alexa488, Cy2, DyLight488, FITC
Flamma® 552	550	565	543, 546 nm	Alexa555, Cy3, DyLight549, TRITC
TAMRA	553	576	543, 546, 555 nm	Alexa555, Cy3, DyLight549, TRITC
Flamma® 581	581	595	561 nm	Alexa594, DyLight594
Flamma® 648	648	663	594 nm	Alexa647, Cy5, DyLight649, CF680
Flamma® 675	675	691	647, 663 nm	Alexa680, Cy5.5, IRDye680LT
Flamma® 749	749	774	680, 685 nm	Alexa750, Cy7, DyLight755
Flamma® 774	774	806	785 nm	Alexa790, DyLight800, IRDye800
ICG	785	812	785 nm	Alexa790, DyLight800, IRDye800

Excitation Spectra



Emission Spectra



Flamma® Fluors Applications

Reactive Flamma® Fluors	Reacting toward	Functionalized Flamma® Fluors
Flamma® Fluors NHS ester Flamma® Fluors Sulfo-NHS ester Flamma® Fluors Vinylsulfone	Primary Amine (-NH_2)	Flamma® Fluors Carboxylic acid Flamma® Fluors Amine FSD™ Fluors Thiol
Flamma® Fluors Isothiocyanate		Click -Chemistry Flamma® Fluors
Flamma® Fluors Maleimide	Thiol (-SH)	Flamma® Fluors Alkyne
Flamma® Fluors Hydrazide	Aldehyde, Ketone(>C=O)	Flamma® Fluors PEG 4-Alkyne
Flamma® Fluors Dichlorotriazine	Hydroxyl (-OH)	Flamma® Fluors ADIBO

Custom Service: BioActs provides custom antibody/protein fluorescence labeling services with a wide selection of reactive dyes and proper labeling technology.

For ordering custom service, complete custom labeling service request form and submit via email order@bioacts.com or by fax to +82-32-818-8206

For questions, please contact us at support@bioacts.com

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