

Elabscience®

In Situ DNA Fragmentation Detection Kit



In many cell types, apoptosis is characterized by the generation of DNA fragments through the action of endogenous endonucleases. The DNA of apoptotic cells is cleaved into multimers of 180-200bp fragments, corresponding to the oligonucleosomal size. The exposed 3'-OH of the broken DNA can be catalyzed by Terminal Deoxynucleotidyl Transferase (TdT) with fluorescein labeled dUTP, which can be detected with fluorescence microscope or flow cytometer.

Elabscience® One-step TUNEL Assay Kit applies a highly sensitive, fast and simple method to detect DNA fragmentation in situ.

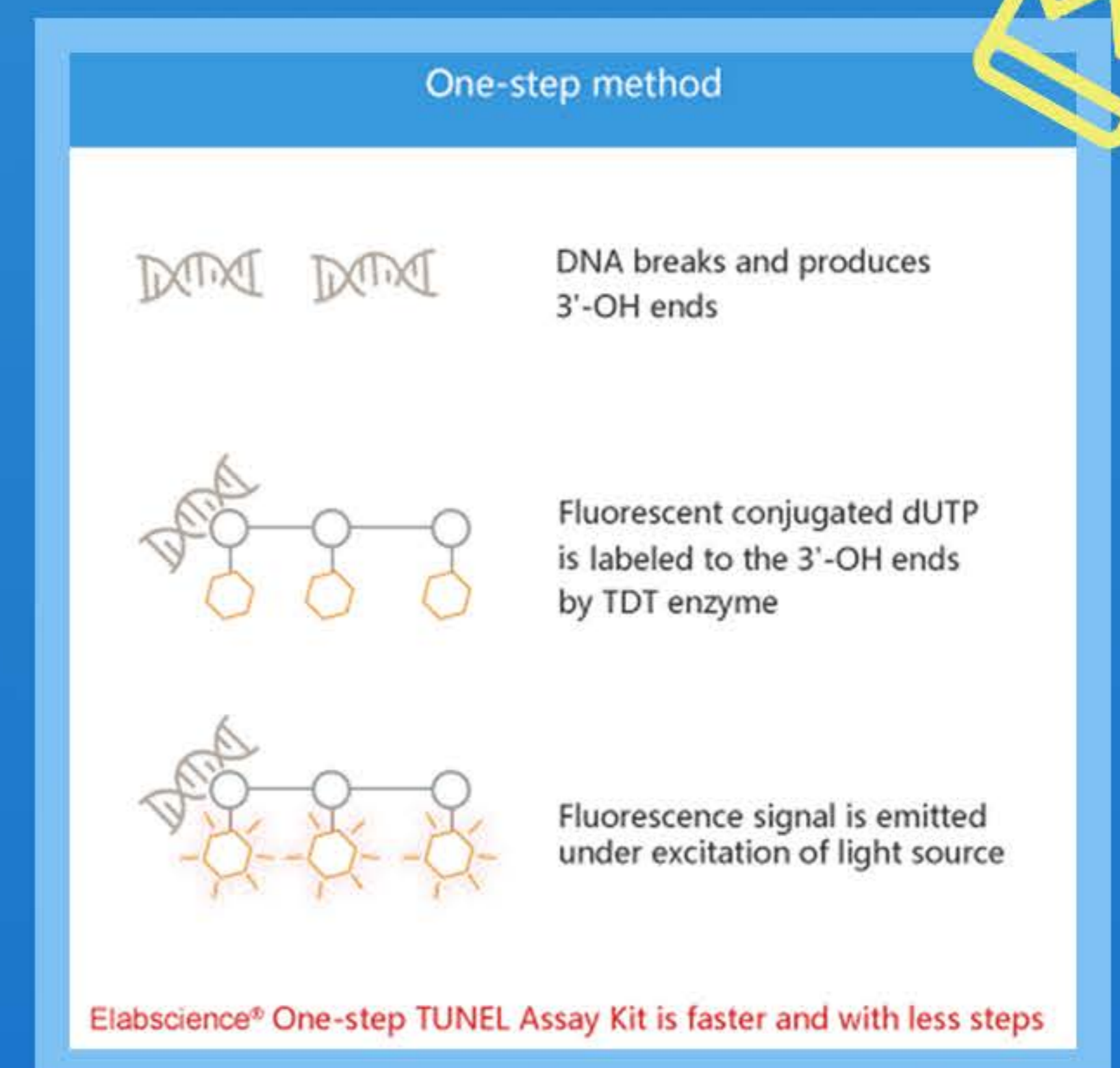
Product Features

Multiple Choices: FITC, AF488, AF594, EV450, AF647, AF555

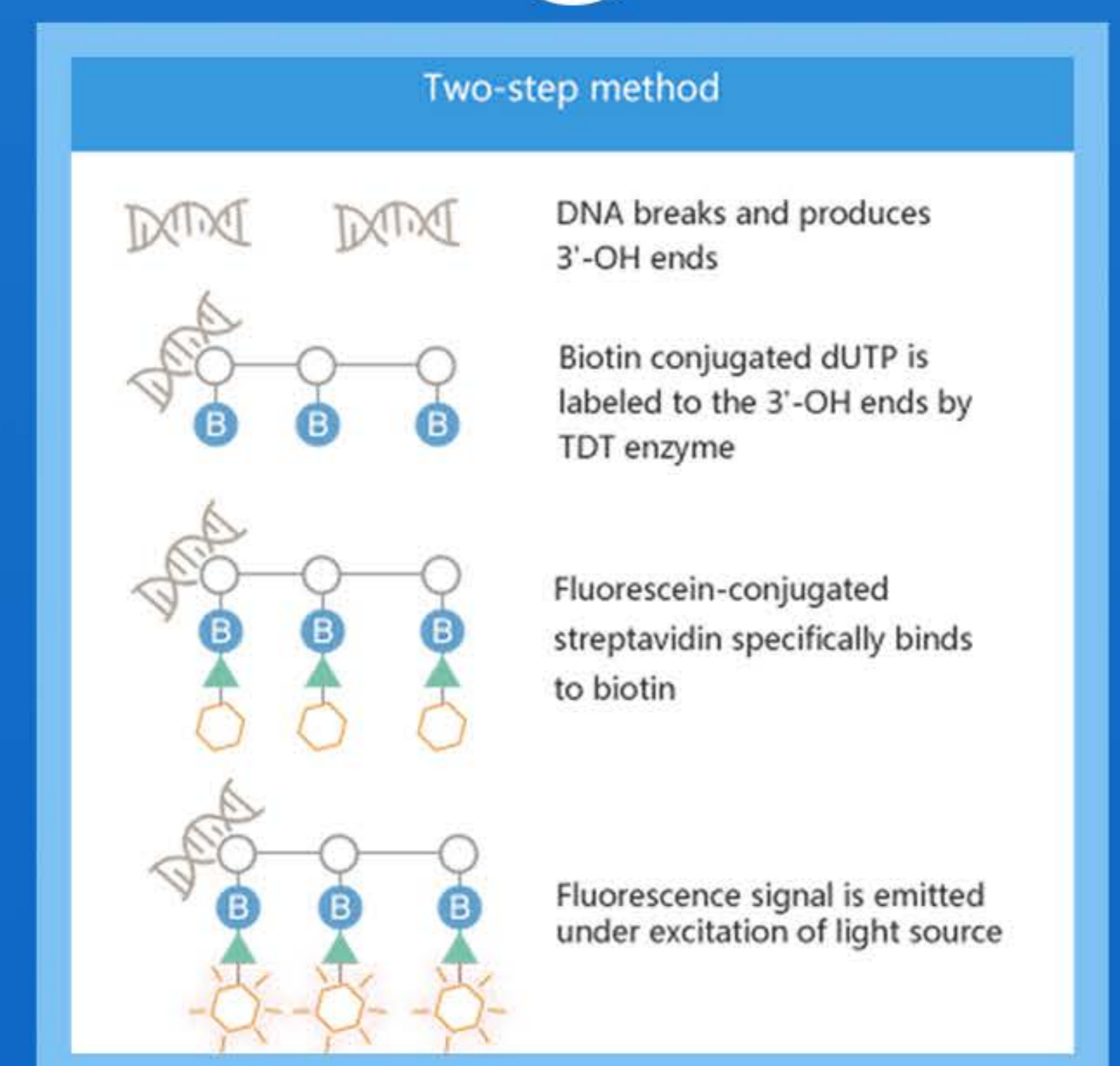
Quick & Simple Operation: One-step method, within 2 hours excluding the sample fixation and permeabilization.

Cost effective: The key components (TdT & fluorescein-dUTP) are self-produced, with high stability between batches.

Safe & Non-toxic: Without potassium cacodylate (dimethylarsinic acid).



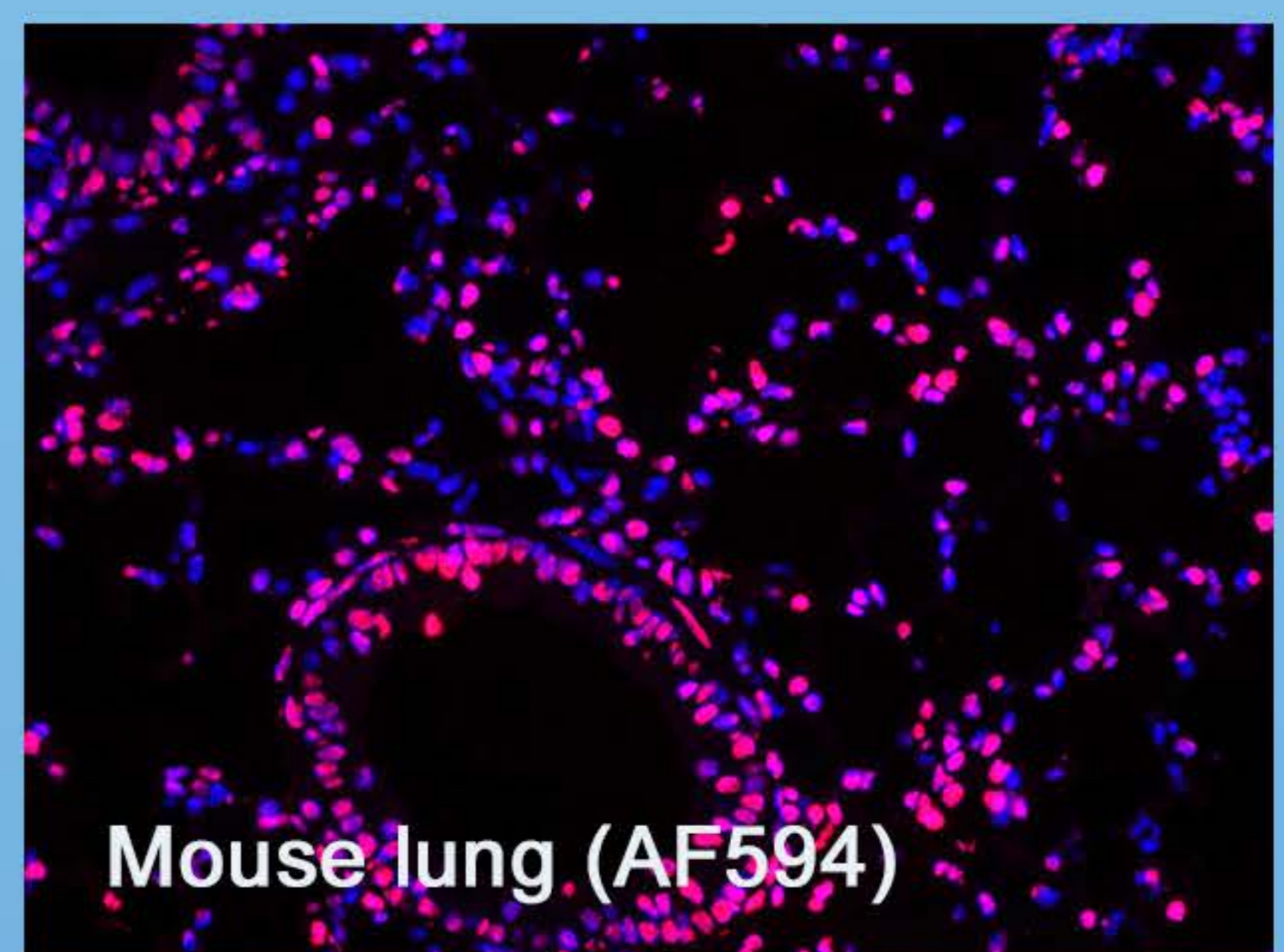
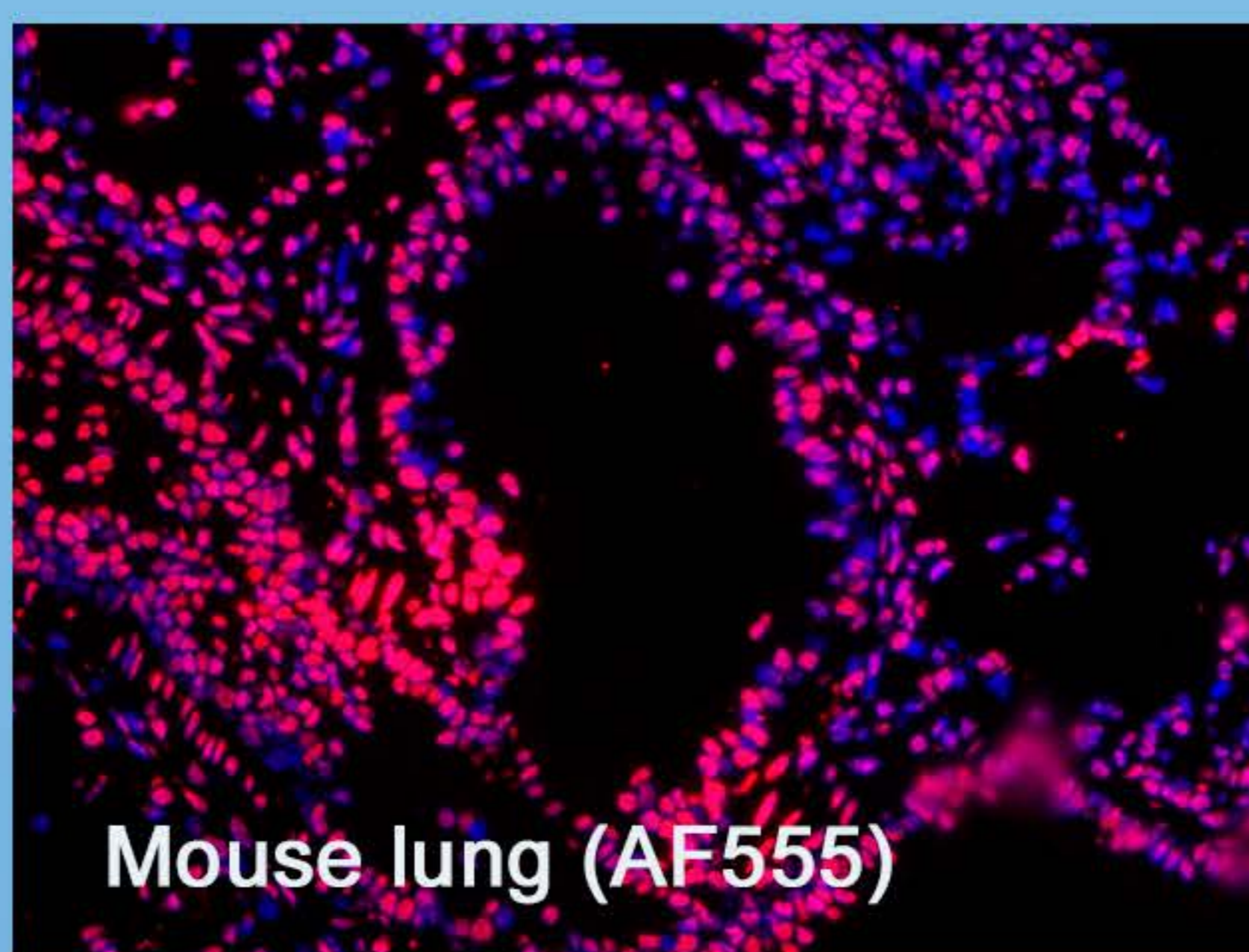
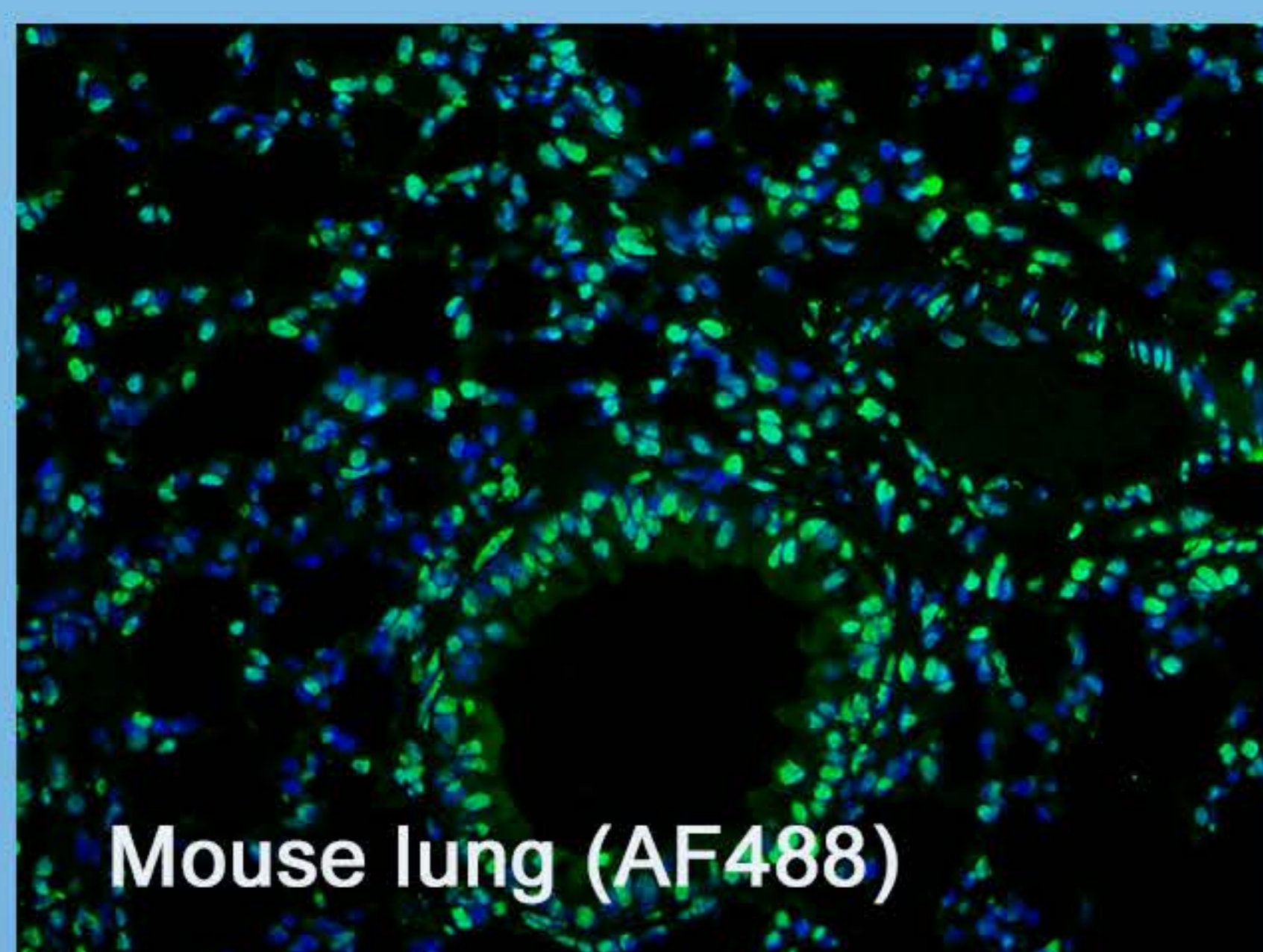
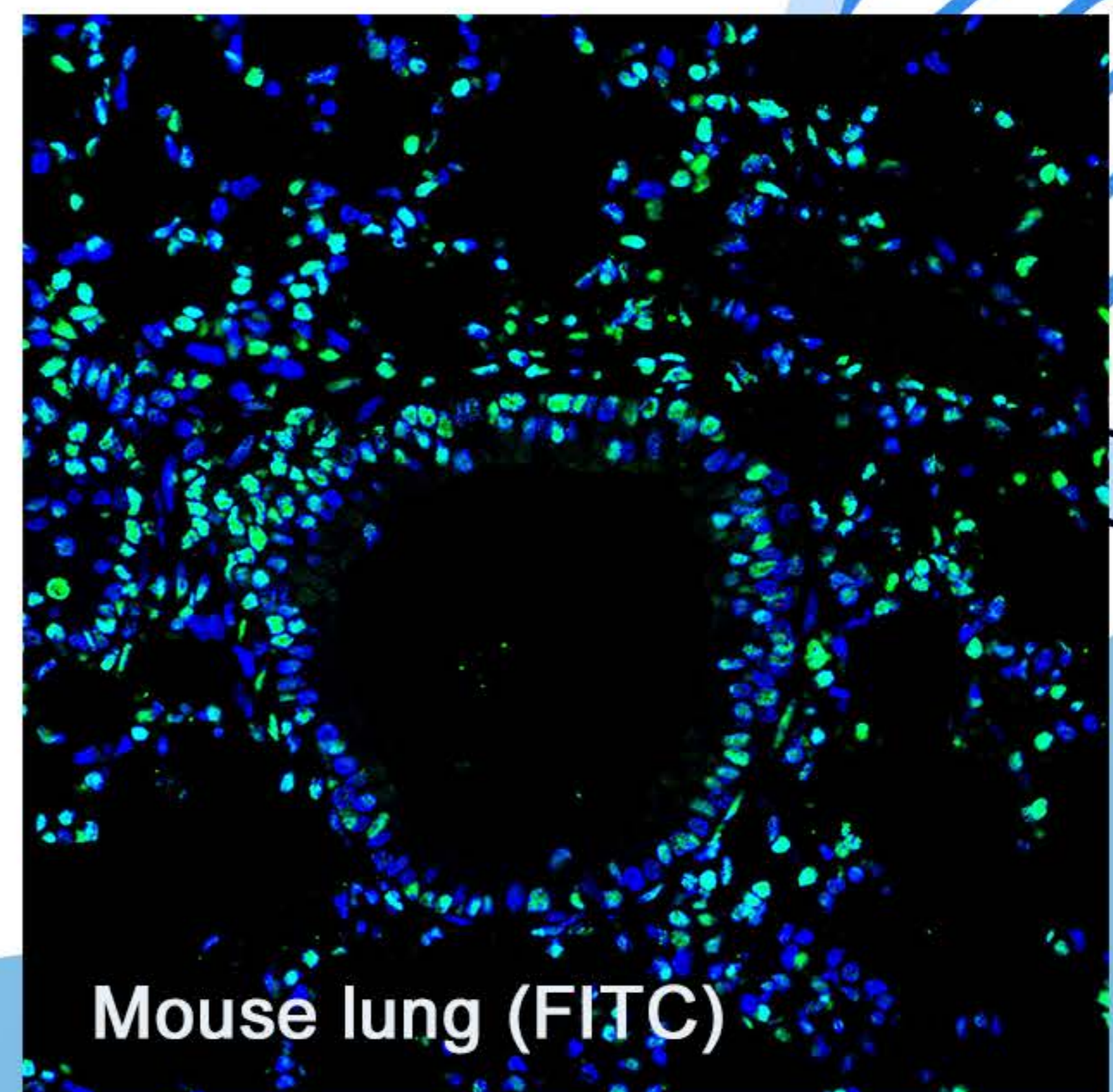
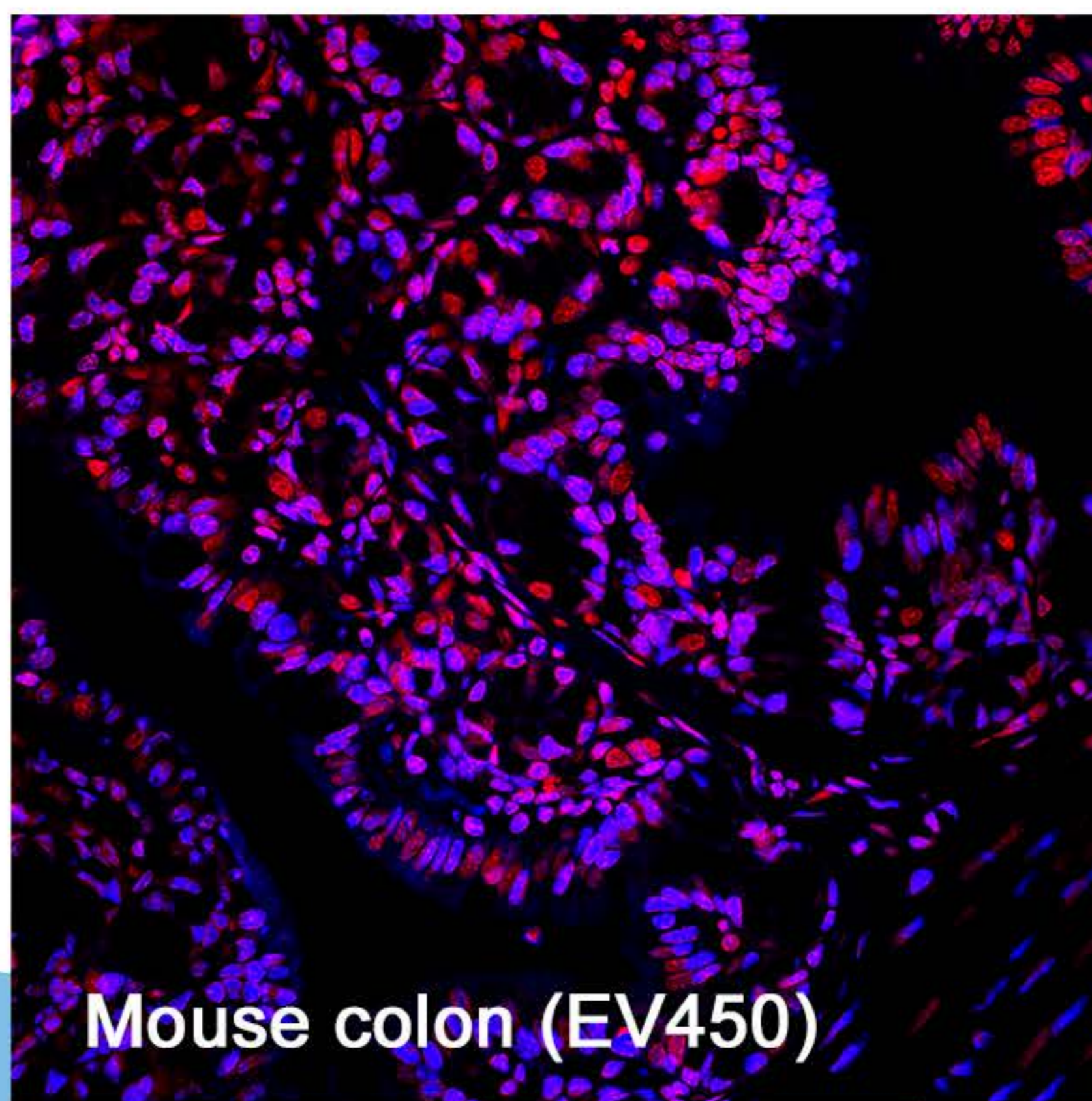
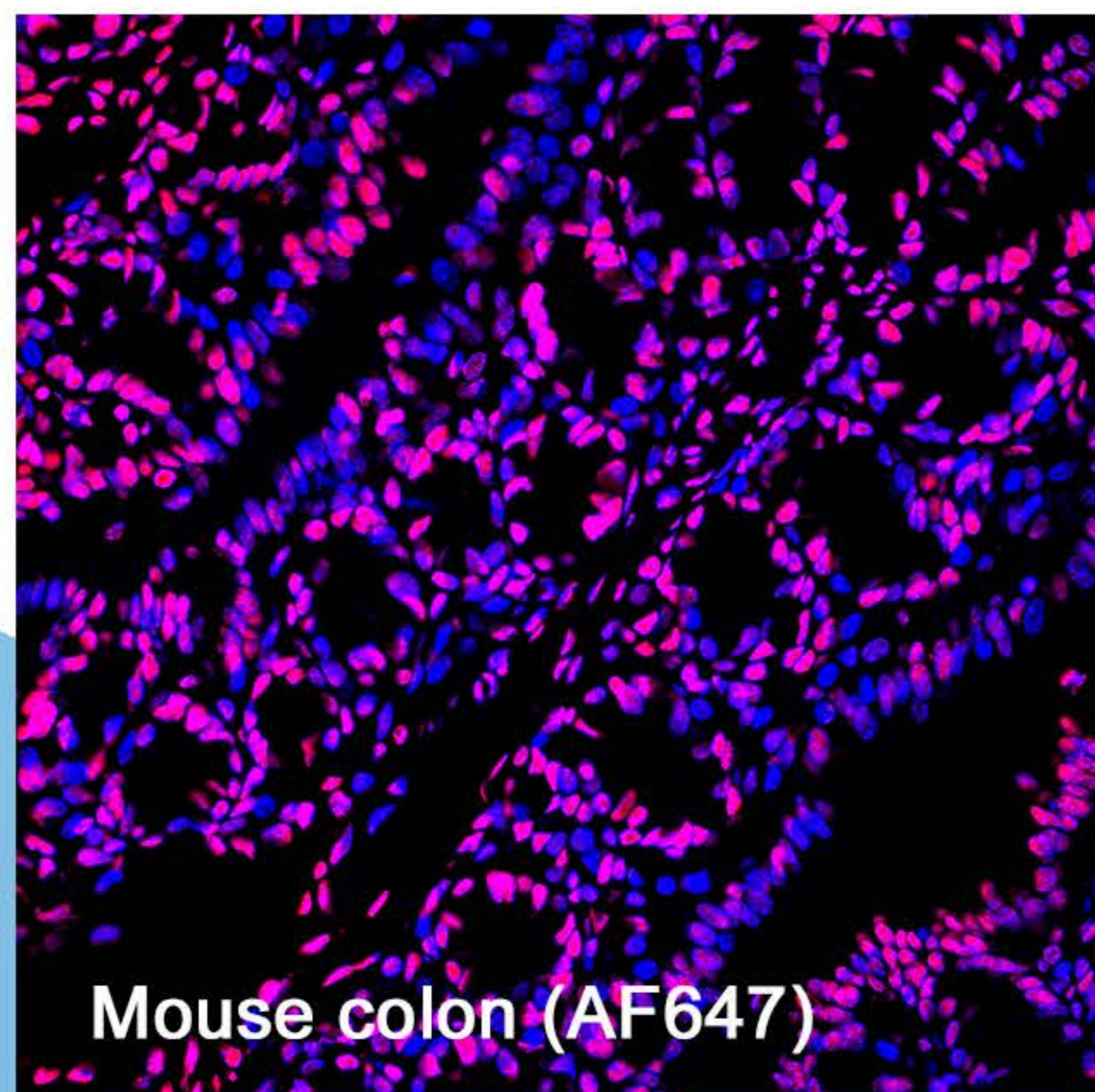
VS



Cat Number	Product Name	Size
E-CK-A320	One-step TUNEL Assay Kit (Green, FITC)	20Assays/50Assays/100Assays
E-CK-A321	One-step TUNEL Assay Kit (Green, AF488)	20Assays/50Assays/100Assays
E-CK-A322	One-step TUNEL Assay Kit (Red, AF594)	20Assays/50Assays/100Assays
E-CK-A323	One-step TUNEL Assay Kit (Blue, EV450)	20Assays/50Assays/100Assays
E-CK-A324	One-step TUNEL Assay Kit (Red, AF647)	20Assays/50Assays/100Assays
E-CK-A325	One-step TUNEL Assay Kit (Red, AF555)	20Assays/50Assays/100Assays

Typical Results

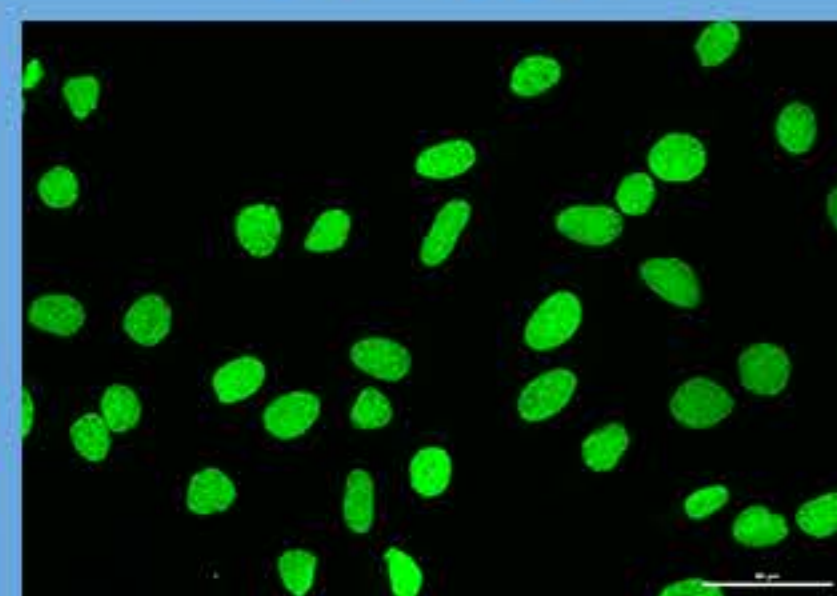
Tissue Slide



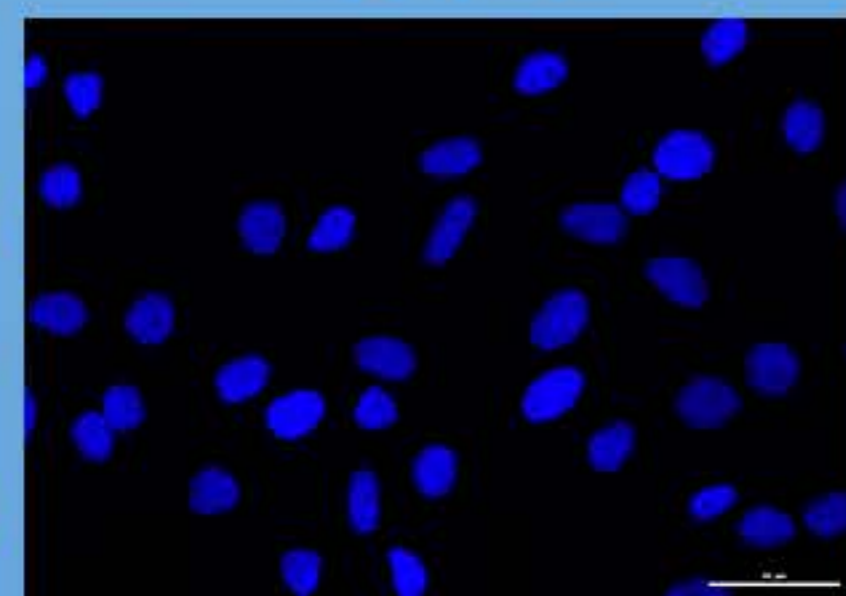
Cell Smears

One-step TUNEL Assay Kit (Green,AF488)

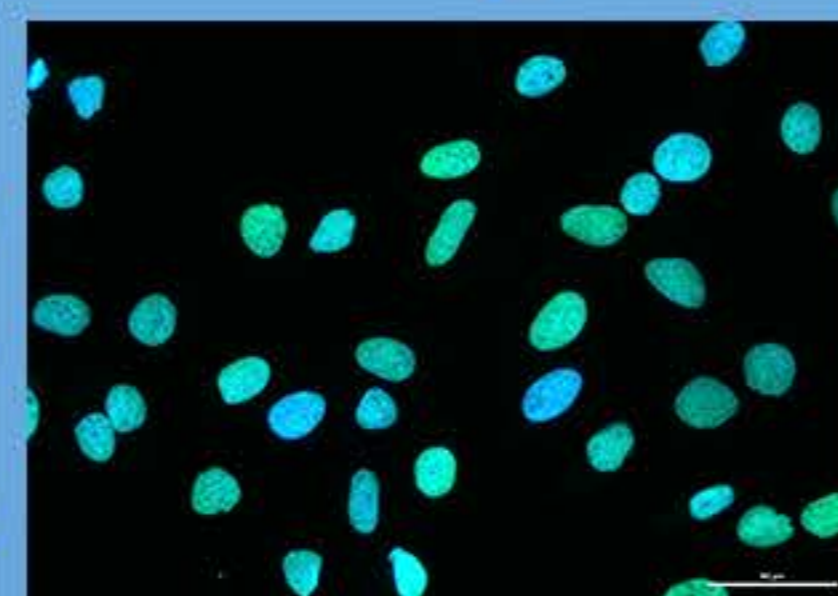
AF488



DAPI

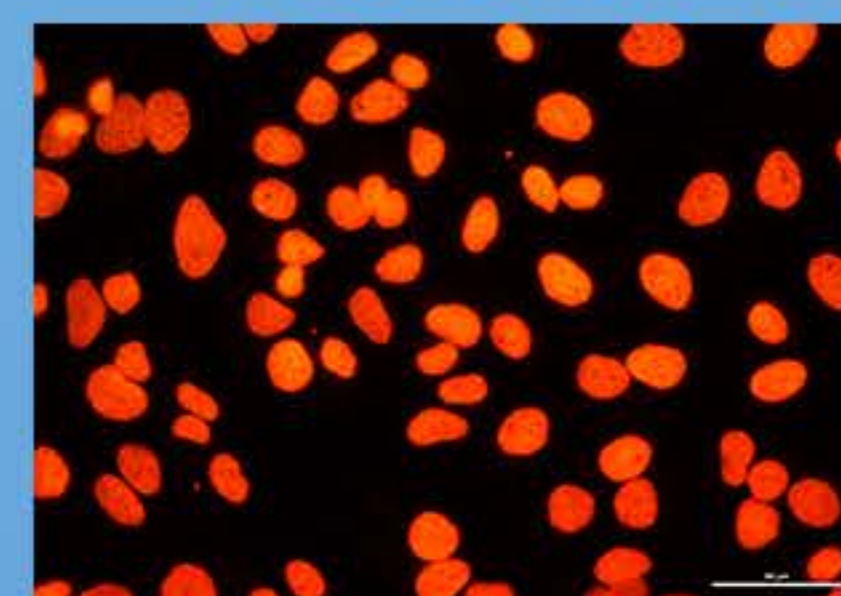


Merge

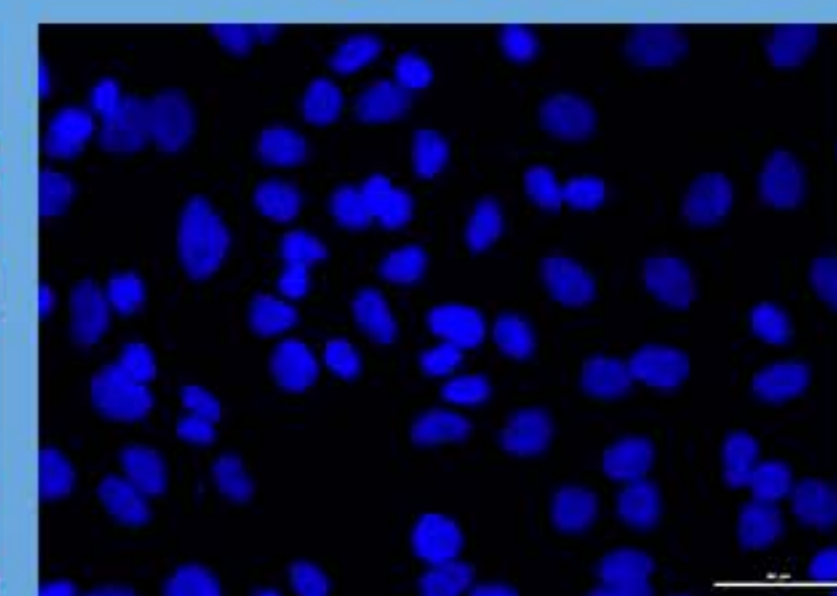


One-step TUNEL Assay Kit (Red,AF594)

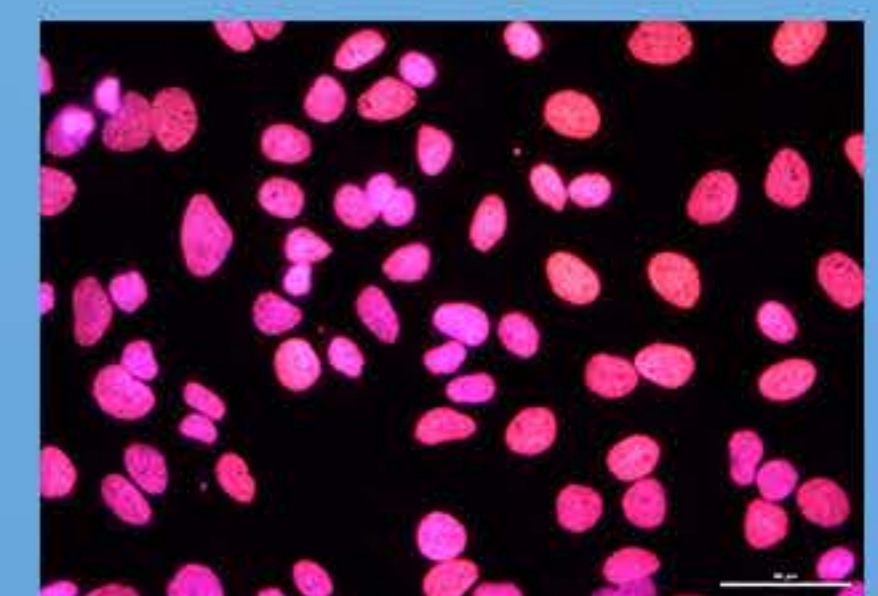
AF555



DAPI

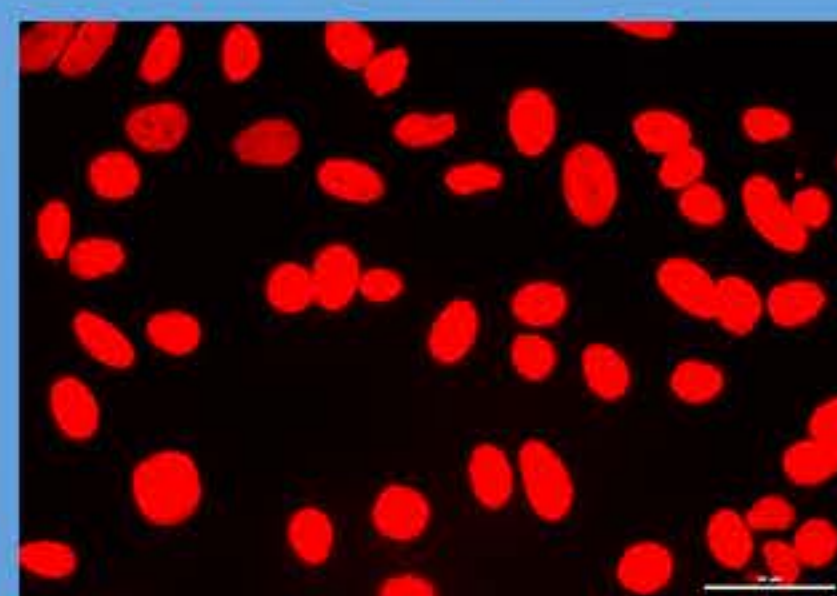


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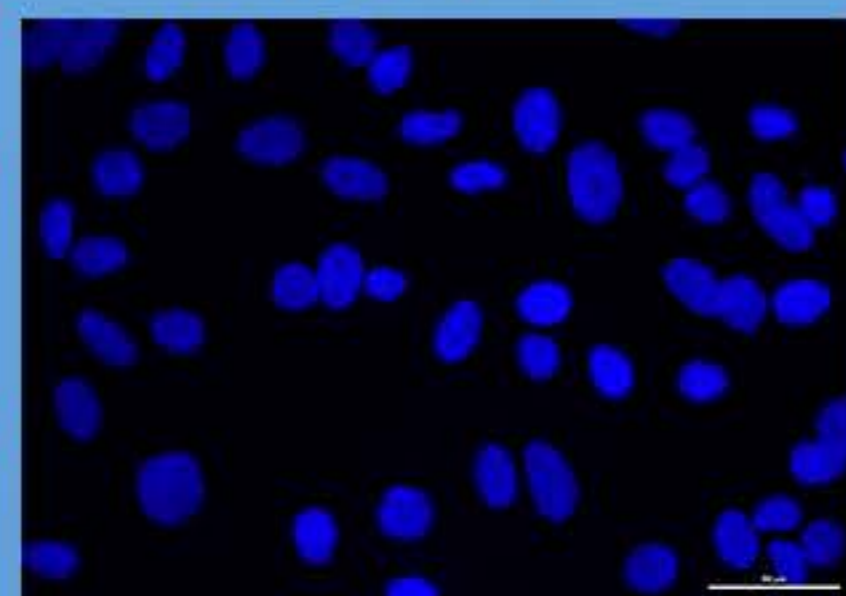


One-step TUNEL Assay Kit (Red,AF555)

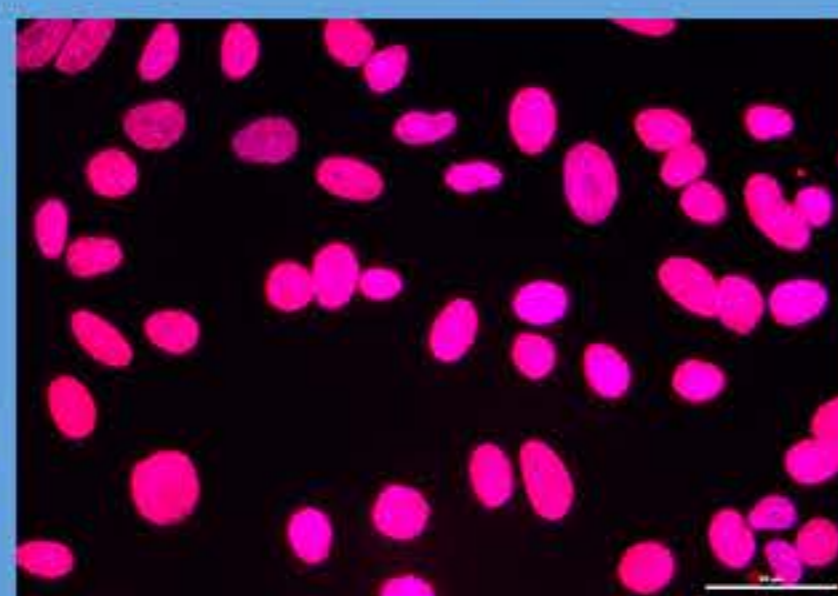
AF594



DAPI

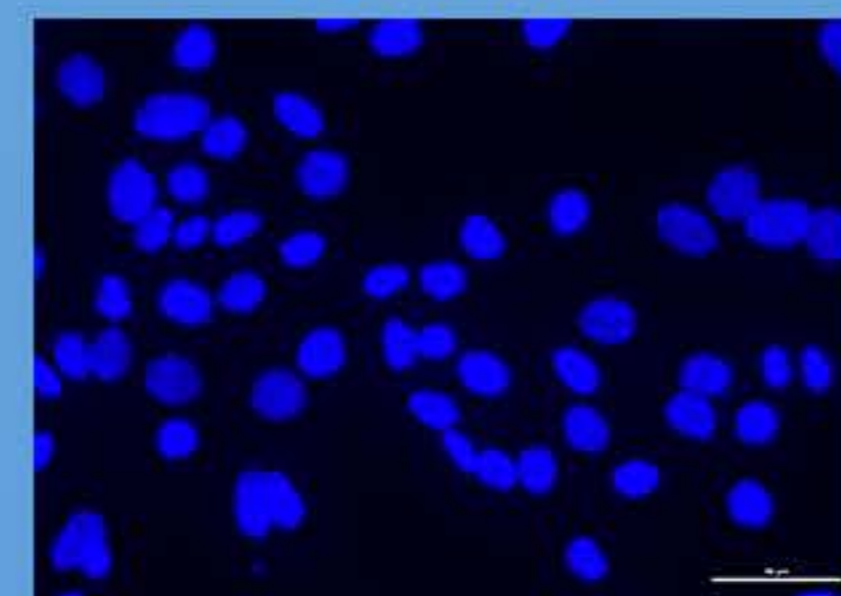


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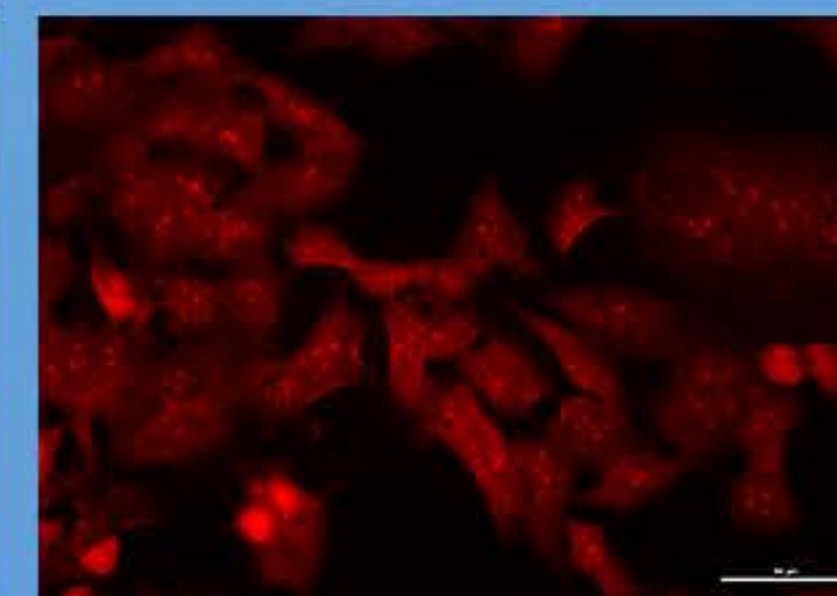


One-step TUNEL Assay Kit (Blue,EV450)

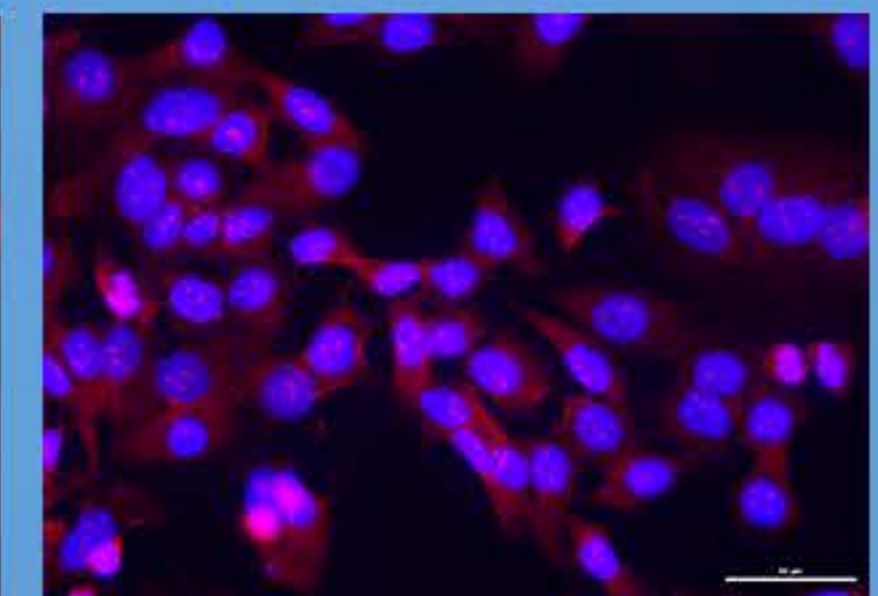
EV450



PI



Merge



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