

## Product Datasheet

## Anti-KA2 Kainate Receptor Antibody FL550 Conjugate



## Overview

<b>Catalog #</b>	75-362-FL550
<b>Conjugate</b>	FL550 Ex: 550 nm, Em: 575 nm
<b>Isotype</b>	IgG2a
<b>Clone Number</b>	N279B/27
<b>Size</b>	200 µL
<b>Concentration</b>	0.5 mg/mL
<b>Host Species</b>	Mouse Monoclonal
<b>Format</b>	Purified by Protein A chromatography
<b>Buffer</b>	PBS with 0.09% azide
<b>Applications</b>	ICC, IHC
<b>Species Reactivity</b>	Mouse and Rat
<b>Immunogen</b>	Fusion protein amino acids 825-979 (cytoplasmic C-terminus) of rat KA2 kainate receptor (accession number Q63273) produced recombinantly in E. Coli
<b>Molecular Weight</b>	110 kDa
<b>Cite this Antibody</b>	Antibodies Inc Cat# 75-362-FL550, RRID: AB_2940213

## Details

<b>Target Description</b>	Glutamate Ionotropic Receptor Kainate Type Subunit 5 is encoded by the gene GRIK5. GRIK5 is a member of the glutamate-gated ion channel (TC 1.A.10.1) family, GRIK5 subfamily. GRIK5 forms functional heteromeric kainate-preferring ionic channels with the subunits encoded by related gene family members. GRIK5 is highly expressed in the cerebral cortex, pyriform cortex, caudate-putamen, hippocampal complex, medial habenulata, and granule cell layer of the cerebellum. GRIK5 is weakly expressed in the globus pallidus, thalamus, colliculi, and the reticular thalamic nucleus. Diseases associated with GRIK5 include Schizophrenia and Autosomal Recessive Non-Syndromic Intellectual Disability.
<b>Specificity</b>	Does not cross-react with KA1
<b>Purification Method</b>	Produced by in vitro bioreactor culture of hybridoma line followed by Protein A affinity chromatography and conjugation of purified mAb. Purified mAbs are >90% specific antibody.
<b>Quality Control Tests</b>	Each new lot of antibody is quality control tested by western blot on rat whole brain lysate and confirmed to stain the expected molecular weight band.

**Storage**

Aliquot and store at  $\leq -20^{\circ}\text{C}$  for long term storage. For short term storage, store at  $2-8^{\circ}\text{C}$ . For maximum recovery of product, centrifuge the vial prior to removing the cap.

**Our Guarantee**

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