Recombinant antibodies

Genetically engineered for consistency

Discover the power of recombinant antibodies (recAbs)—consistency, sensitivity, and specificity you can trust

Invitrogen™ recombinant antibodies are produced *in vitro* using defined genetic sequences, enabling consistent performance and lot-to-lot reproducibility.

Their design allows advanced engineering and flexible formats across species, backbones, isotypes, and subtypes, making them an ideal choice for long-term and large-scale research.

Reasons to choose Invitrogen recombinant antibodies

- **Desire high sensitivity and specificity?** Invitrogen antibodies deliver higher signal intensity compared to other suppliers at matched concentrations. Antibodies are engineered to avoid cellular Fc-receptor binding for clearer, more specific signals
- **Need confidence in your results?** Our largest selection of rigorously tested, advanced verified antibodies helps ensure that the antibody binds specifically to the target of interest—reducing troubleshooting and helping save time
- **Want more consistent results?** DNA-defined antibody sequences eliminate hybridoma drift and lot-to-lot variability
- **Want reliable, publication-worthy results?** Our antibodies are cited extensively in peer-reviewed research. Discover antibody citations with our new AI tool on product pages

Sensitivity testing

Invitrogen recAbs demonstrate higher sensitivity compared to top clones from other suppliers

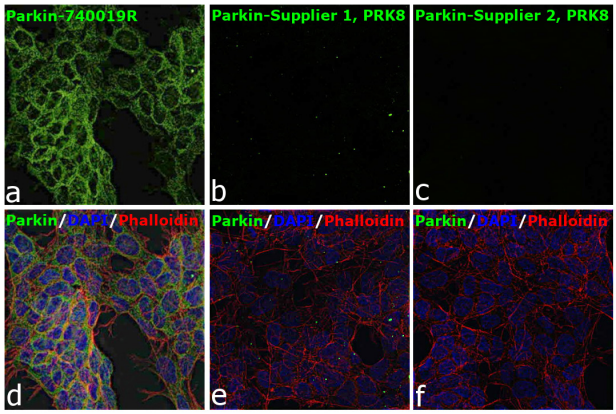

Figure 1. Parkin Recombinant Rabbit Monoclonal Antibody (21H24L9) (Cat. No. 740019R) demonstrates significantly higher sensitivity for target detection by immunocytochemistry compared to the top-cited parkin antibodies (same clone) at matched concentrations of 5 µg/mL on SH-SY5Y cells.

Search for your target at
thermofisher.com/findrecabs
or scan the QR code

invitrogen

Reproducibility testing

Recombinant antibodies enable experimental reproducibility with lot-to-lot consistency

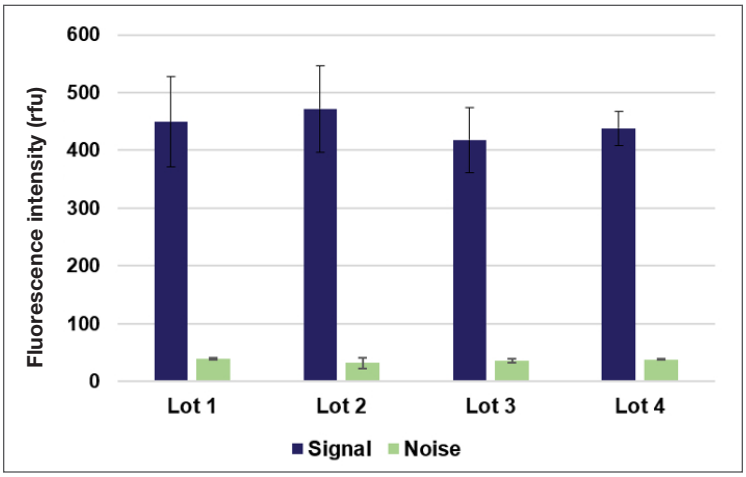

Figure 2. Multiple lots of Invitrogen™ Goat anti-Rabbit IgG (Heavy Chain), Superclonal™ Recombinant Secondary Antibody, Alexa Fluor™ Plus 488 (Cat. No. A55053) antibody were tested at matched antibody concentrations, confirming consistent fluorescence intensities and performance across different lots of our recAbs.

Specificity testing

Advanced verification methods like knockout, knockdowns, and relative expression ensure that our recAbs are specific to the target.

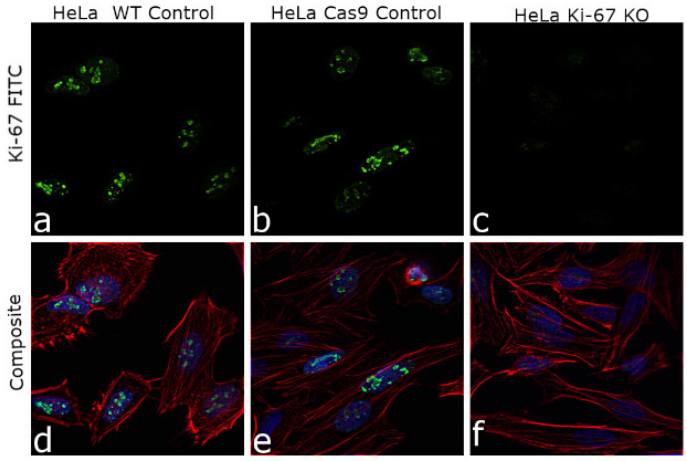

Figure 3. Antibody specificity was demonstrated by CRISPR-Cas9–mediated knockout of Ki-67 in HeLa cells. Loss of signal **(c, f)** upon CRISPR-mediated knockout (KO) confirms target-specific detection of Ki-67 (green) by Ki-67 Recombinant Rabbit Monoclonal Antibody (SP6) (Cat. No. MA5-14520). WT = wild-type, KO = knockout, FITC= fluorescein isothiocyanate

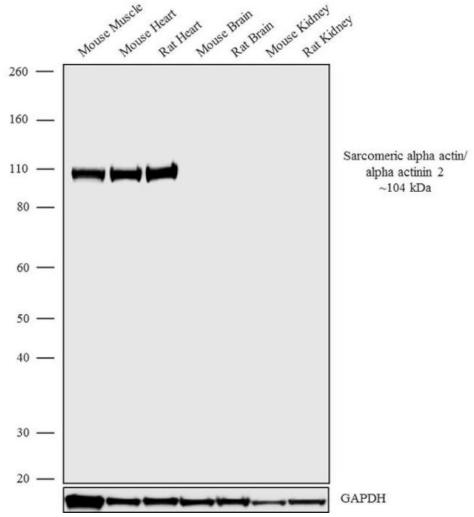

Figure 4. Western blot analysis was performed on tissue extracts (30 µg lysate) of mouse skeletal muscle (lane 1), mouse heart (lane 2), rat heart (lane 3), mouse brain (lane 4), rat brain (lane 5), mouse kidney (lane 6), and rat kidney (lane 7). The blots were probed with Anti-Sarcomeric Alpha Actin/Alpha Actinin 2 Recombinant Rabbit Monoclonal Antibody (Cat. No. 701914, 0.5 µg/mL). Specificity for sarcomeric alpha actin/alpha actinin 2 was determined by a corresponding 104 kDa band observed only in muscle tissues.

Antibody performance guarantee:
If our antibody doesn't perform as described, we'll replace it for free or issue a credit*.

Learn more at **thermofisher.com/recombinantantibodies**