

# Anti-FGFR2 Rabbit Monoclonal Antibody

Catalog # ABO13758

## Product Information

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|--------------------------|---------------------------------------------------------------------------------------------------------------------|
| <b>Application</b>       | WB, IP                                                                                                              |
| <b>Primary Accession</b> | <a href="#">P21802</a>                                                                                              |
| <b>Host</b>              | Rabbit                                                                                                              |
| <b>Isotype</b>           | Rabbit IgG                                                                                                          |
| <b>Reactivity</b>        | Rat, Human, Mouse                                                                                                   |
| <b>Clonality</b>         | Monoclonal                                                                                                          |
| <b>Format</b>            | Liquid                                                                                                              |
| <b>Description</b>       | Anti-FGFR2 Rabbit Monoclonal Antibody . Tested in WB, IP applications. This antibody reacts with Human, Mouse, Rat. |

## Additional Information

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|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene ID</b>                  | 2263                                                                                                                                                                                                                             |
| <b>Other Names</b>              | Fibroblast growth factor receptor 2, FGFR-2, 2.7.10.1, K-sam, KGFR, Keratinocyte growth factor receptor, CD332, FGFR2, BEK, KGFR, KSAM                                                                                           |
| <b>Calculated MW</b>            | 92025                                                                                                                                                                                                                            |
| <b>Application Details</b>      | WB 1:500-1:2000<br>IP 1:50                                                                                                                                                                                                       |
| <b>Subcellular Localization</b> | Cell membrane; Single-pass type I membrane protein. Golgi apparatus. Cytoplasmic vesicle. Detected on osteoblast plasma membrane lipid rafts. After ligand binding, the activated receptor is rapidly internalized and degraded. |
| <b>Source</b>                   | Eukaryota                                                                                                                                                                                                                        |
| <b>Contents</b>                 | Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.                                                                                                              |
| <b>Clone Names</b>              | Clone: AAAD-6                                                                                                                                                                                                                    |
| <b>Immunogen</b>                | A synthesized peptide derived from human FGFR2                                                                                                                                                                                   |
| <b>Purification</b>             | Affinity-chromatography                                                                                                                                                                                                          |
| <b>Storage</b>                  | Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.                                                                                       |

## Protein Information

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|-------------|-------|
| <b>Name</b> | FGFR2 |
|-------------|-------|

## Synonyms

BEK, KGFR, KSAM

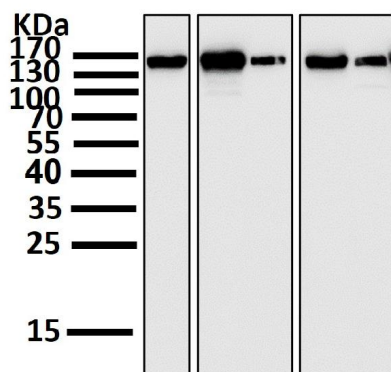
## Function

Tyrosine-protein kinase that acts as a cell-surface receptor for fibroblast growth factors and plays an essential role in the regulation of cell proliferation, differentiation, migration and apoptosis, and in the regulation of embryonic development. Required for normal embryonic patterning, trophoblast function, limb bud development, lung morphogenesis, osteogenesis and skin development. Plays an essential role in the regulation of osteoblast differentiation, proliferation and apoptosis, and is required for normal skeleton development. Promotes cell proliferation in keratinocytes and immature osteoblasts, but promotes apoptosis in differentiated osteoblasts. Phosphorylates PLCG1, FRS2 and PAK4. Ligand binding leads to the activation of several signaling cascades. Activation of PLCG1 leads to the production of the cellular signaling molecules diacylglycerol and inositol 1,4,5-trisphosphate. Phosphorylation of FRS2 triggers recruitment of GRB2, GAB1, PIK3R1 and SOS1, and mediates activation of RAS, MAPK1/ERK2, MAPK3/ERK1 and the MAP kinase signaling pathway, as well as of the AKT1 signaling pathway. FGFR2 signaling is down-regulated by ubiquitination, internalization and degradation. Mutations that lead to constitutive kinase activation or impair normal FGFR2 maturation, internalization and degradation lead to aberrant signaling. Over-expressed FGFR2 promotes activation of STAT1.

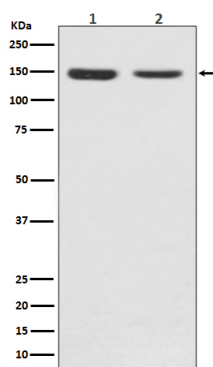
## Cellular Location

Cell membrane; Single-pass type I membrane protein. Golgi apparatus. Cytoplasmic vesicle. Note=Detected on osteoblast plasma membrane lipid rafts. After ligand binding, the activated receptor is rapidly internalized and degraded [Isoform 3]: Cell membrane; Single-pass type I membrane protein. Note=After ligand binding, the activated receptor is rapidly internalized and degraded [Isoform 13]: Secreted.

## Images



All lanes use the Antibody at 1:2K dilution for 1 hour at room temperature.



Western blot analysis of FGFR2 expression in (1) MCF-7 cell lysate; (2) Mouse brain lysate.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.