

## RAS (G12D Mutant) antibody [HL10]

Cat. No. GTX635362

<b>Host</b>	Rabbit
<b>Clonality</b>	Monoclonal
<b>Isotype</b>	IgG
<b>Applications</b>	WB, IHC-P
<b>Reactivity</b>	Human, Mouse

References ( 17 )

★★★★★ Review ( 5 )

Package

100 µl, 25 µl

## PRODUCT

## Summary

KRAS has the distinction of being a preeminent oncoprotein as it is mutated in more than 85% of RAS-altered cancers. The RAS (G12D Mutant) antibody [HL10] is the first commercially available recombinant antibody that demonstrates exceptional specificity by paraffin-embedded immunohistochemistry and western blot for the RAS G12D mutant protein.

## Applications

## Application Note

\*Optimal dilutions/concentrations should be determined by the researcher.

Suggested dilution	Recommended dilution
WB	1:500-1:3000
IHC-P	1:25-1:100

**Note : Suggest using high sensitivity ECL for optimization. GTX14698 Trident femto Western HRP Substrate is recommended.**

Not tested in other applications.

**Observed MW (kDa)** 22 kDa.

## Product Note

Based on internal testing, this antibody specifically recognizes RAS G12D mutant and does not cross-react with wild-type RAS or the G12V, G12R, G12C, G12A, or G12S mutants.

## Properties

<b>Form</b>	Liquid
<b>Buffer</b>	PBS
<b>Preservative</b>	No preservatives
<b>Storage</b>	Store as concentrated solution. Centrifuge briefly prior to opening vial. For short-term storage (1-2 weeks), store at 4°C. For long-term storage, aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.
<b>Concentration</b>	1.5 mg/ml (Please refer to the vial label for the specific concentration.)
<b>Immunogen</b>	Carrier-protein conjugated synthetic peptide surrounding mutant G12D of human K-Ras. The exact sequence is proprietary.
<b>Purification</b>	Affinity purified by Protein A.



For full product information, images and publications, please visit our [website](#).

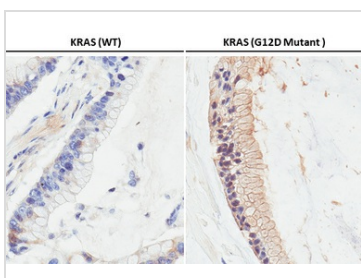
**Conjugation** Unconjugated

**Note**

For laboratory research use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption.

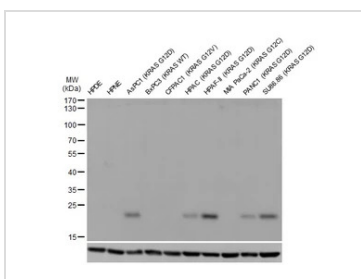
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DATA IMAGES



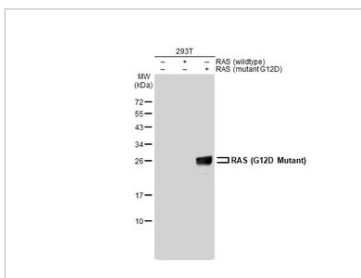
**GTX635362 IHC-P Image**

RAS (G12D Mutant) antibody [HL10] detects RAS (G12D Mutant) protein by immunohistochemical analysis. Sample: Paraffin-embedded human wild-type (left) and KRAS G12D mutant (right) pancreatic tumor. RAS (G12D Mutant) stained by RAS (G12D Mutant) antibody [HL10] (GTX635362) diluted at 1:50.



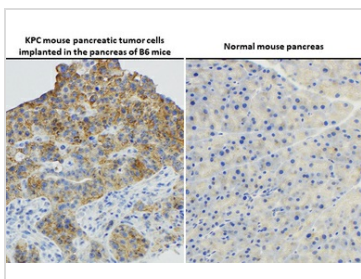
**GTX635362 WB Image**

Various whole cell extracts were separated by SDS-PAGE, and the membrane was blotted with RAS (G12D Mutant) antibody [HL10] (GTX635362) diluted at 1:1000.



**GTX635362 WB Image**

Non-transfected (-) and transfected (+) Various whole cell extracts (30 µg) were separated by 12% SDS-PAGE, and the membrane was blotted with RAS (G12D Mutant) antibody [HL10] (GTX635362) diluted at 1:3000. The HRP-conjugated anti-rabbit IgG antibody (GTX213110-01) was used to detect the primary antibody.



**GTX635362 IHC-P Image**

RAS (G12D Mutant) antibody [HL10] detects RAS (G12D Mutant) protein at by immunohistochemical analysis. Sample: Paraffin-embedded KPC mouse pancreatic tumor cells implanted in the pancreas of B6 mice (left) and normal mouse pancreas (right). RAS (G12D Mutant) stained by RAS (G12D Mutant) antibody [HL10] (GTX635362) diluted at 1:75. Antigen Retrieval: Citrate buffer, pH 6.0, 40 min



For full product information, images and publications, please visit our [website](#).