

Datasheet for ABIN2715104

**BRAF Protein (Myc-DYKDDDDK Tag)****2** Images**1** Publication[Go to Product page](#)

## Overview

Quantity:	20 µg
Target:	BRAF
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This BRAF protein is labelled with Myc-DYKDDDDK Tag.
Application:	Antibody Production (AbP), Functional Studies (Func), Standard (STD), Protein Interaction (PI)

## Product Details

Specificity:	Optimal preservation of protein structure, post-translational modifications and functions.
Characteristics:	<ul style="list-style-type: none"><li>• Recombinant human B-Raf proto-oncogene (V600E mutant) protein expressed in HEK293 cells.</li><li>• Produced with end-sequenced ORF clone</li><li>• Tested for bioactivity.</li></ul>
Purity:	> 80 % as determined by SDS-PAGE and Coomassie blue staining
Biological Activity Comment:	BRAF kinase activity was measured in an HTRF® assay. Varying concentrations of BRAF were added to a reaction mix containing ATP and a biotinylated kinase substrate (HTRF substrate 2) and was incubated at 37C for phosphorylation. HTRF detection reagents were then added, the reaction was incubated for 30 minutes at room temperature. Time-resolved fluorescent signal (Delta R) was measured on a Flexstation 3 microplate reader.

## Target Details

Target:	BRAF
Alternative Name:	B-Raf Proto-Oncogene ( <a href="#">BRAF Products</a> )
Background:	<p>This gene encodes a protein belonging to the raf/mil family of serine/threonine protein kinases. This protein plays a role in regulating the MAP kinase/ERKs signaling pathway, which affects cell division, differentiation, and secretion. Mutations in this gene are associated with cardiofaciocutaneous syndrome, a disease characterized by heart defects, mental retardation and a distinctive facial appearance. Mutations in this gene have also been associated with various cancers, including non-Hodgkin lymphoma, colorectal cancer, malignant melanoma, thyroid carcinoma, non-small cell lung carcinoma, and adenocarcinoma of lung. A pseudogene, which is located on chromosome X, has been identified for this gene.</p>
Molecular Weight:	84 kDa
NCBI Accession:	<a href="#">NP_004324</a>
Pathways:	<a href="#">MAPK Signaling</a> , <a href="#">RTK Signaling</a> , <a href="#">Neurotrophin Signaling Pathway</a> , <a href="#">Ribonucleoprotein Complex Subunit Organization</a> , <a href="#">Hepatitis C</a> , <a href="#">Autophagy</a>

## Application Details

Application Notes:	<p>Recombinant human proteins can be used for:</p> <ul style="list-style-type: none"><li>Native antigens for optimized antibody production</li><li>Positive controls in ELISA and other antibody assays</li><li>Protein-protein interaction</li><li>In vitro biochemical assays and cell-based functional assays</li></ul>
Comment:	The tag is located at the C-terminal.
Restrictions:	For Research Use only

## Handling

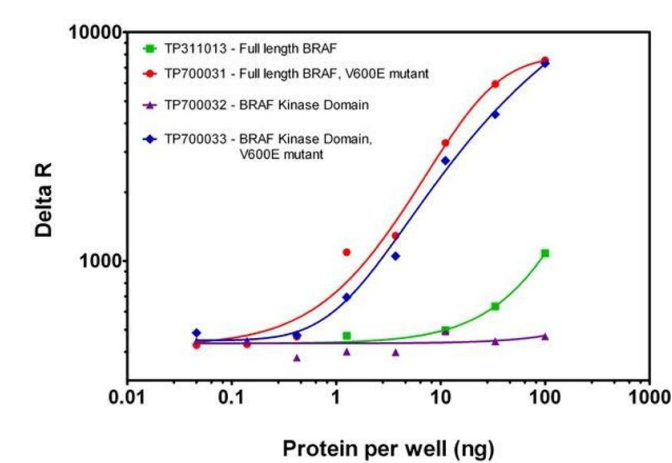
Concentration:	> 50 µg/mL
Buffer:	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10 % glycerol. Store at -80C. Avoid repeated freeze-thaw cycles. Stable for at least 3 months from receipt of products under proper storage and handling conditions. < td valign=top>
Storage:	-80 °C
Storage Comment:	Store at -80°C. Thaw on ice, aliquot to individual single-use tubes, and then re-freeze

immediately. Only 2-3 freeze thaw cycles are recommended.

Publications

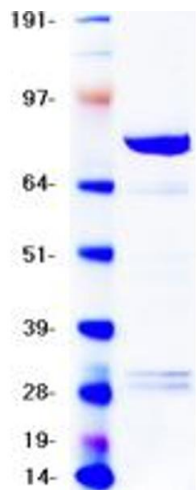
Product cited in: Arnoux, Fina, Lambert, Balandraud, Martin, Ouafik, Kanaan, Roudier, Auger: "Newly Identified BRAF Mutation in Rheumatoid Arthritis." in: **Arthritis & rheumatology (Hoboken, N.J.)**, Vol. 68, Issue 6, pp. 1377-83, (2016) ([PubMed](#)).

Images



**Activity Assay**

**Image 1.** Bioactivity measured with Activity Assay



**Western Blotting**

**Image 2.** Validation with Western Blot