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[Marker Primary Antibody]

Rabbit Anti-FGGY/HRP Conjugated antibody

Catalog Number: SL11689R-HRP

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Anti-FGGY/HRP
Immunogen:	KLH conjugated synthetic peptide derived from human FGGY (151-250aa)
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Applications:	IHC-P=1:100-500 IHC-F=1:100-500 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Mouse,Rat(predicted:Human,Dog,Cow,Horse,Rabbit,Sheep)
Background:	background: FGGY is a 551 amino acid member of the FGGY kinase family that exists as four isoforms which are produced by alternative splicing events. Expressed in lung, kidney, small intestine, liver and fetal brain, FGGY is encoded by a gene that maps to chromosome 1 and, when mutated, is associated with sporadic amyotrophic lateral sclerosis (ALS). ALS is a neurodegenerative disorder that affects motor neurons and results in fatal paralysis, usually within 2 to 5 years after initial diagnosis. Chromosome 1, on which the gene encoding FGGY is located, is the largest human chromosome, spanning about 260 million base pairs and making up 8% of the human genome. There are about 3,000 genes on chromosome 1, many of which are associated with genetic diseases, including Hutchinson-Gilford progeria, familial adenomatous polyposis, Stickler syndrome, Gaucher disease and Usher syndrome. **Function:** Expressed in kidney, lung and small intestine and to a lower extent

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	in liver and detected in cerebrospinal fluid (at protein level). **Tissue Specificity:** Expressed in fetal brain (at protein level). DISEASE: Defects in FGGY are associated with sporadic amyotrophic lateral sclerosis (ALS) [MIM:105400]. Amyotrophic lateral sclerosis is a neurodegenerative disorder affecting upper and lower motor neurons and resulting in fatal paralysis. Sensory abnormalities are absent. Death usually occurs within 2 to 5 years. The etiology of amyotrophic lateral sclerosis is likely to be multifactorial, involving both genetic and environmental factors. **Similarity:** Belongs to the FGGY kinase family. **Database links:** UniProtKB/Swiss-Prot: Q96C11.2 Important **Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.