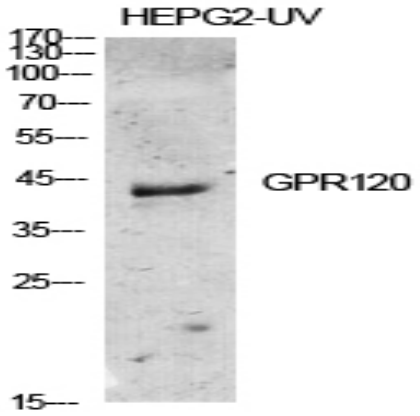
Best Tools for immunology Research

GPR120 Polyclonal Antibody

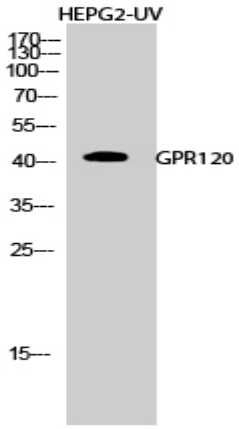
Catalog No :	YT1964
Reactivity :	Human;Mouse;Rat
Applications :	WB;IF;ELISA
Target :	GPR120
Gene Name :	O3FAR1
Protein Name :	Omega-3 fatty acid receptor 1
Human Gene Id :	338557
Human Swiss Prot No :	Q5NUL3
Mouse Gene Id :	107221
Mouse Swiss Prot No :	Q7TMA4
Rat Gene Id :	294075
Rat Swiss Prot No :	Q2AC31
Immunogen :	The antiserum was produced against synthesized peptide derived from human GPR120. AA range:221-270
Specificity :	GPR120 Polyclonal Antibody detects endogenous levels of GPR120 protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. IF 1:200 - 1:1000. ELISA: 1:5000. Not yet tested in other applications.
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Observed Band :	38kD
Background :	This gene encodes a G protein-coupled receptor (GPR) which belongs to the rhodopsin family of GPRs. The encoded protein functions as a receptor for free fatty acids, including omega-3, and participates in suppressing anti-inflammatory responses and insulin sensitizing. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Feb 2012],
Function :	function:Receptor for unsaturated long-chain free fatty acid (FAA). Binding of the ligand promotes the secretion of glucagon-like peptide-1 from the gastro-intestinal tract.,similarity:Belongs to the G-protein coupled receptor 1 family.,tissue specificity:Abundant expression in the intestinal tract.,
Subcellular Location :	[Isoform 1]: Cell membrane ; Multi-pass membrane protein . Endosome membrane ; Multi-pass membrane protein . Lysosome membrane ; Multi-pass membrane protein . Sorted to late endosome/lysosome compartments upon internalization. .; [Isoform 2]: Cell membrane ; Multi-pass membrane protein . Endosome membrane ; Multi-pass membrane protein . Lysosome membrane ; Multi-pass membrane protein . Cell projection, cilium membrane ; Multi-pass membrane protein . Sorted to late endosome/lysosome compartments upon internalization (PubMed:22282525). Specifically localizes to the primary cilium of undifferentiated adipocytes. Ciliary trafficking is TULP3-dependent. As the cilium is lost during adipogenesis, moves to the plasma membrane (Probable). .
Expression :	[Isoform 2]: The predominant isoform in human tissues. Expressed in adipose tissue, pancreatic islets, lung and brain. Expressed in alpha cells of pancreatic islets (PubMed:24742677). Expressed in primary cilia of perivascular preadipocytes of white adipose tissue (at protein level) (PubMed:31761534). ; Abundant expression in the intestinal tract. Expressed in colonic intraepithelial neuroendocrine cells.

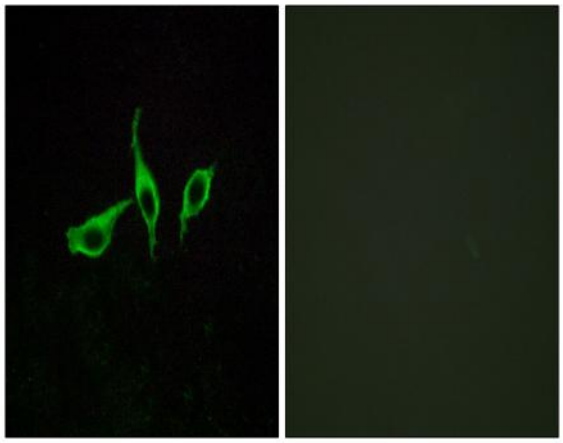
Products Images



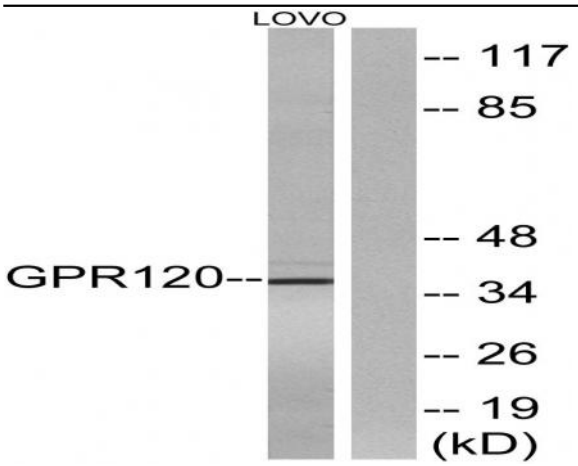
Western Blot analysis of various cells using GPR120 Polyclonal Antibody diluted at 1:500



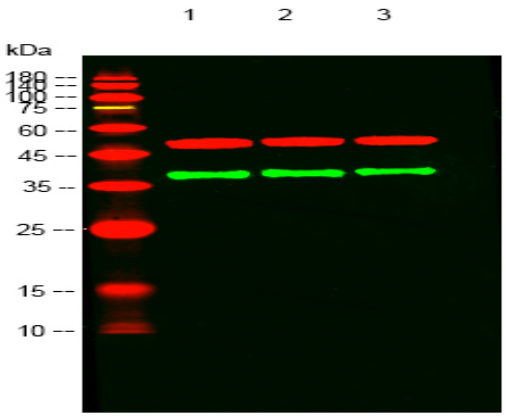
Western Blot analysis of HEPG2-UV cells using GPR120 Polyclonal Antibody diluted at 1:500



Immunofluorescence analysis of LOVO cells, using GPR120 Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from LOVO cells, using GPR120 Antibody. The lane on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from 1) HEPG2-UV,2) HEK-293T, 3) LOVO cells, (Green) primary antibody was diluted at 1:1000, 4°over night, secondary antibody(cat:RS23920)was diluted at 1:10000, 37° 1hour. (Red) Tubulin β Monoclonal Antibody(5G3) (cat:YM3030) antibody was diluted at 1:5000 as loading control, 4° over night,secondary antibody(cat:RS23710)was diluted at 1:10000, 37° 1hour.