



The fund received a 5-star Overall Morningstar Rating as of 12/31/23 among 1,298 funds in the Large Blend category (IB shares, based on risk-adjusted returns)

Portfolio Managers

Kathryn B. Lakin  
(industry since 2008)

Jacquelyne J. Cavanaugh  
(industry since 1995)

Matthew J. LaPlant, CFA  
(industry since 1998)

Andrew N. O'Brien, CFA  
(industry since 2011)

William C. Rives, CFA  
(industry since 2013)

Walter D. Scully, CPA  
(industry since 1996)

Objective

The fund seeks capital appreciation.

Morningstar category  
Large Blend

Lipper category

VP (Underlying Funds) – Large-Cap Core Funds

Benchmark

S&P 500 Index

Current unit value

Class IA: \$34.91  
Class IB: \$34.69

Net assets

\$80.50M

Number of holdings

127

Morningstar rankings

(IB shares, based on total return)

1 year 11% (13/261)  
3 years 33% (59/247)  
5 years 11% (18/236)  
10 years 12% (10/203)

Not FDIC insured  
May lose value  
No bank guarantee

Putnam VT Research Fund

Seeking to capitalize on the expertise of Putnam's research team

A best-ideas fund

The fund represents the stock selections of Putnam's Global Equity Research Group, whose analysts cover more than 1,000 companies.

A flexible strategy

The fund can own growth- or value-style stocks, allowing it to seek opportunities regardless of which style is in favor.

A rigorous process

The fund's experienced managers use rigorous fundamental investment research to oversee the portfolio and manage risk.

Top 10 holdings

Microsoft	7.82%
Apple	4.57
Alphabet	4.01
Amazon	3.86
NVIDIA	2.92
Oracle	2.24
Meta Platforms	2.23
Broadcom	2.18
AMD	2.02
UnitedHealth	1.79

Holdings represent 33.63% of the portfolio and will vary over time.

Risk (IB shares, as of 12/31/23)

Beta	0.98
Tracking error	1.74%
Up capture ratio	100.22%
Down capture ratio	98.28%

Sector weightings

	Underweight	Overweight	Portfolio	Benchmark
Materials		1.2	3.6%	2.4%
Utilities		0.3	2.6	2.3
Consumer discretionary		0.2	11.1	10.9
Health care		0.2	12.8	12.6
Energy		0.1	4.0	3.9
Communication services		0.0	8.6	8.6
Consumer staples		0.0	6.2	6.2
Financials	-0.5		12.5	13.0
Real estate	-1.4		1.1	2.5
Industrials	-1.6		7.2	8.8
Information technology	-1.9		27.0	28.9

Cash and net other assets represent 3.3% of the portfolio.

Allocations will vary over time. Due to rounding, percentages may not equal 100%.

The unclassified sector, where applicable, includes exchange-traded funds and other securities not able to be classified by sector.

**Capture ratios** are used to evaluate how well an investment manager performed relative to an index during specific periods (periods of positive return in the case of up capture, negative return in the case of down capture). The ratio is calculated by dividing the manager's returns by the returns of the index during the period and multiplying that factor by 100. **Turnover** is the rate at which the fund buys and sells securities each year. For example, if a fund's assets total \$100 million and the fund bought and sold \$100 million of securities that year, its portfolio turnover rate would be 100%. **Beta** is defined as a fund's sensitivity to market movements and is used to evaluate market related, or systematic, risk. It is a historical measure of the variability of return earned by an investment portfolio. Risk statistics are measured using a 5-year regression analysis. For funds with shorter track records, Since Inception analysis is used. **Tracking error** assesses how closely a fund's performance tracks that of the fund's benchmark by calculating the standard deviation of the difference between the fund's returns and its benchmark returns over a given time period, typically 5 years.

Not all share classes are available on all platforms.

## Annual performance at net asset value (all distributions reinvested)

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Class IA	15.17%	-1.29%	10.32%	23.70%	-4.51%	33.59%	20.23%	24.44%	-17.07%	29.16%
Class IB	14.86	-1.50	10.03	23.34	-4.71	33.24	19.92	24.13	-17.28	28.86
Benchmark	13.69	1.38	11.96	21.83	-4.38	31.49	18.40	28.71	-18.11	26.29

## Annualized total return performance

	Q4	1 year	3 years	5 years	10 years
Class IA NAV (Inception 9/30/98)	12.21%	29.16%	10.06%	16.45%	12.24%
Class IB NAV (Inception 9/30/98)	12.16	28.86	9.78	16.15	11.95
Benchmark	11.69	26.29	10.00	15.69	12.03

Current performance may be lower or higher than the quoted past performance, which cannot guarantee future results. Share price, principal value, and return will vary, and you may have a gain or a loss when you sell your shares. All total return figures are at net asset value. The charges and expenses of the insurance company separate account level are not reflected. Class IA shares are offered at net asset value and are not subject to a distribution fee. Class IB shares are offered at net asset value and pay an ongoing distribution fee. To obtain the most recent month-end performance, contact your variable annuity provider, who has more information about their variable annuity and variable life products that invest in Putnam-managed products. Recent performance may have benefited from one or more legal settlements. For a portion of the period, this fund limited expenses, without which returns would have been lower.

The S&P 500® Index is an unmanaged index of common stock performance. You cannot invest directly in an index.

The Morningstar Rating™ for funds, or "star rating," is calculated for managed products (including mutual funds, variable annuity and variable life subaccounts, exchange-traded funds, closed-end funds, and separate accounts) with at least a 3-year history. Exchange-traded funds and open-ended mutual funds are considered a single population for comparative purposes. It is calculated based on a Morningstar Risk-Adjusted Return measure that accounts for variation in a managed product's monthly excess performance, placing more emphasis on downward variations and rewarding consistent performance. The top 10% of products in each product category receive 5 stars, the next 22.5% receive 4 stars, the next 35% receive 3 stars, the next 22.5% receive 2 stars, and the bottom 10% receive 1 star. The Overall Morningstar Rating for a managed product is derived from a weighted average of the performance figures associated with its 3-, 5-, and 10-year (if applicable) Morningstar Rating metrics. The weights are: 100% 3-year rating for 36–59 months of total returns, 60% 5-year rating/40% 3-year rating for 60–119 months of total returns, and 50% 10-year rating/30% 5-year rating/20% 3-year rating for 120 or more months of total returns. While the 10-year overall star rating formula seems to give the most weight to the 10-year period, the most recent 3-year period actually has the greatest impact because it is included in all three rating periods. Ratings do not take into account the effects of sales charges and loads. Putnam VT Research Fund received 4, 5, and 5 stars for the 3-, 5-, and 10-year periods among 1,298, 1,191, and 897 Large Blend funds, respectively.

Morningstar rankings for class IB shares are based on total return without sales charge relative to all share classes of funds with similar objectives as determined by Morningstar. Morningstar rankings may differ significantly from Morningstar's risk-adjusted star ratings. Past performance is not indicative of future results.

**Consider these risks before investing.** Growth stocks may be more susceptible to earnings disappointments, and value stocks may fail to rebound. The value of investments in the fund's portfolio may fall or fail to rise over extended periods of time for a variety of reasons, including general economic, political, or financial market conditions; investor sentiment and market perceptions; government actions; geopolitical events or changes; and factors related to a specific issuer, geography, industry, or sector. These and other factors may lead to increased volatility and reduced liquidity in the fund's portfolio holdings.

From time to time, the fund may invest a significant portion of its assets in companies in one or more related industries or sectors, which would make the fund more vulnerable to adverse developments affecting those industries or sectors. For example, the fund may invest a significant portion of its assets in companies in the information technology sector. The information technology sector may be significantly affected by technological obsolescence or innovation, short product cycles, falling prices and profits, competitive pressures, and general market conditions.

Our investment techniques, analyses, and judgments may not produce the outcome we intend. The investments we select for the fund may not perform as well as other securities that we do not select for the fund. We, or the fund's other service providers, may experience disruptions or operating errors that could have a negative effect on the fund. You can lose money by investing in the fund.

**Your clients should carefully consider the investment objective, risks, charges, and expenses of a fund before investing. For a prospectus containing this and other information for any variable annuity or variable life product that invests in Putnam managed products, call the Putnam Client Engagement Center at 1-800-354-4000. Your clients should read the prospectus carefully before investing.**

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